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12/24/81

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PRINTOUT #924

DENNIS HAUGH

DBTL SOFTWARE -SAF 1981/12/24 10:12:47 HRF ASSEMBLER DTSS L-6 HOST RESIDENT FACILITY PAGE 0001
000001 2 TITLE DBTL SOFTWARE
000002 4 XDEF E\$DBTL NEEDED FOR MODULE MAP
0387 0000 5 S\$DBTL EQU \$ START OF MODULE DBTL
000003

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-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0002

000004 1000 /EJECT
000005 1010 *
000006 1020 *IO DRIVERS
000007 1030 *
000008 0000 1040 \$IOCHO EQU Z'0000' IO CHANNELS
000009 0040 1050 \$IOCH1 EQU Z'0040'
000010 0080 1060 \$IOCH2 EQU Z'0080'
000011 00C0 1070 \$IOCH3 EQU Z'00C0'
000012 1080 *
000013 0001 1090 \$OTCTL EQU Z'0001' CONTROL INFORMATION OUTPUT
000014 0002 1100 \$ICTLI EQU Z'0002'
000015 0003 1110 \$ICTL0 EQU Z'0003'
000016 0005 1120 \$OCCTL EQU Z'0005'
000017 0006 1130 \$TSKRI EQU Z'0006'
000018 0007 1140 \$TSKRO EQU Z'0007'
000019 0008 1150 \$INMBA EQU Z'0008'
000020 000A 1160 \$INMMA EQU Z'000A'
000021 000C 1170 \$INRNG EQU Z'000C'
000022 000F 1180 \$OBCTL EQU Z'000F'
000023 0010 1190 \$CFGAI EQU Z'0010'
000024 0011 1200 \$CFGAO EQU Z'0011'
000025 0012 1210 \$CFGBI EQU Z'0012'
000026 0013 1220 \$CFGBO EQU Z'0013'
000027 1230 *
000028 0018 1240 \$ISTS1 EQU Z'0018' INPUT STATUS REG 1
000029 001A 1250 \$ISTS2 EQU Z'001A' INPUT STATUS REG 2
000030 0026 1260 \$IDINP EQU Z'0026' INPUT DEVICE ID
000031 1270 *
000032 0009 1280 \$IOLD EQU Z'0009' SIMPLE LOAD (NO DIRECTION)
000033 0009 1290 \$IOLDI EQU \$IOLD+\$IOCHO LOAD AND START DCW EXECUTION (TO US)
000034 0049 1300 \$IOLDO EQU \$IOLD+\$IOCH1 LOAD AND START DCW EXECUTION (FROM US)
000035 1310 *
000036 1320 *MISCELLANEOUS CHANNELS
000037 1330 *
000038 0000 1340 CPUOCH EQU 0 CHANNEL OF CPU#0
000039 0400 1350 BTLDCH EQU Z'0400' BOOTLOAD CHANNEL
000040 FF80 1355 LASTCH EQU Z'FF80' LAST POSSIBLE L6 CHANNEL TO CHECK FOR DISKETTE
000041 1360 *
000042 1370 *
000043 1380 *CLOCK BLOCK DEFINITIONS
000044 1390 *
000045 0001 1400 FPTR EQU 1 FIRST BLOCK POINTER
000046 0002 1410 LPTR EQU 2 LAST BLOCK POINTER (SAF)
000047 1420 *
000048 0003 1430 USRDTA EQU 3 START OF DATA IN QUEUE BLOCKS
000049 1440 *
000050 0003 1450 SWORD EQU 3 S-REGISTER OR STATUS
000051 0004 1460 UWORD EQU 4 USERS XB7
000052 0006 1470 RWORD EQU 6 RUN ADDRESS

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-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0003

000053
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000058
000059 000D 2000 /EJECT
000060 000A 2001 *
000061 001B 2002 *ASCII VALUES
000062 000A 2003 *
000063 2004 *CONTROL CHARACTERS
000064 2005 *
000065 2006 \$ASCCR EQU 13
000066 0030 2007 \$ASCLF EQU 10
000067 0031 2008 \$ASCEC EQU 27
000068 0032 2009 \$CRLF EQU \$ASCCR*Z'0100'+\$ASCLF C/R L/F PAIR
000069 0033 2010 *
000070 0034 2011 *NUMBERS (0-9)
000071 0035 2012 *
000072 0036 2013 \$ASCO EQU 48
000073 0037 2014 \$ASC1 EQU 49
000074 0038 2015 \$ASC2 EQU 50
000075 0039 2016 \$ASC3 EQU 51
000076 2017 \$ASC4 EQU 52
000077 2018 \$ASC5 EQU 53
000078 2019 \$ASC6 EQU 54
000079 0041 2020 \$ASC7 EQU 55
000080 0042 2021 \$ASC8 EQU 56
000081 0043 2022 \$ASC9 EQU 57
000082 0044 2023 *
000083 0045 2024 *LETTERS (A-Z)
000084 0046 2025 *
000085 0047 2026 \$ASCA EQU 65
000086 0048 2027 \$ASCB EQU 66
000087 0049 2028 \$ASCC EQU 67
000088 004A 2029 \$ASCD EQU 68
000089 004B 2030 \$ASCE EQU 69
000090 004C 2031 \$ASCF EQU 70
000091 004D 2032 \$ASC G EQU 71
000092 004E 2033 \$ASCH EQU 72
000093 004F 2034 \$ASCI EQU 73
000094 0050 2035 \$ASCJ EQU 74
000095 0051 2036 \$ASCK EQU 75
000096 0052 2037 \$ASCL EQU 76
000097 0053 2038 \$ASCM EQU 77
000098 0054 2039 \$ASCN EQU 78
000099 0055 2040 \$ASCO EQU 79
000100 0056 2041 \$ASCP EQU 80
000101 0057 2042 \$ASCQ EQU 81
000102 0058 2043 \$ASCR EQU 82
000103 0059 2044 \$ASCS EQU 83
000104 005A 2045 \$ASCT EQU 84
000105 2046 \$ASCU EQU 85
000106 2047 \$ASCV EQU 86
000107 2048 \$ASCW EQU 87
000108 2049 \$ASCX EQU 88
000109 2050 \$ASCY EQU 89
000110 2051 \$ASCZ EQU 90

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-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0004

| | | | |
|--------|------|---|------------------|
| 000105 | | 2052 /EJECT | |
| 000106 | | 2053 * | |
| 000107 | | 2054 *SPECIAL CHARACTERS | |
| 000108 | | 2055 * | |
| 000109 | 0020 | 2056 \$ASCSP EQU 32 | |
| 000110 | 0024 | 2057 \$ASCDL EQU 36 | |
| 000111 | 0027 | 2058 \$ASCAP EQU 39 | |
| 000112 | 0028 | 2059 \$ASCLP EQU 40 | |
| 000113 | 0029 | 2060 \$ASCRP EQU 41 | |
| 000114 | 002A | 2061 \$ASCAS EQU 42 | |
| 000115 | 002B | 2062 \$ASCPL EQU 43 | |
| 000116 | 002C | 2063 \$ASCCM EQU 44 | |
| 000117 | 002D | 2064 \$ASCDS EQU 45 | |
| 000118 | 002E | 2065 \$ASCDT EQU 46 | |
| 000119 | 002F | 2066 \$ASCFS EQU 47 | |
| 000120 | 003A | 2067 \$ASCCN EQU 58 | |
| 000121 | 003B | 2068 \$ASCSC EQU 59 | |
| 000122 | 003C | 2069 \$ASCLT EQU 60 | |
| 000123 | 003D | 2070 \$ASCEQ EQU 61 | |
| 000124 | 003E | 2071 \$ASCGT EQU 62 | |
| 000125 | 003F | 2072 \$ASCQM EQU 63 | |
| 000126 | 0040 | 2073 \$ASCAT EQU 64 | |
| 000127 | 005C | 2074 \$ASCBS EQU 92 | |
| 000128 | 005E | 2075 \$ASCUA EQU 94 | |
| 000129 | 005F | 2076 \$ASCBA EQU 95 | |
| 000130 | 007F | 2077 \$ASCRO EQU 127 | |
| 000131 | 7F7F | 2078 \$RORO EQU \$ASCRO*Z'0100'+\$ASCRO | TIME DELAY PAIR |
| 000132 | | 2079 * | |
| 000133 | | 2080 *CONTROL CHARACTERS | |
| 000134 | | 2081 * | |
| 000135 | 0005 | 2082 \$ACCE EQU \$ASCE-64 | |
| 000136 | 0018 | 2083 \$ACCX EQU \$ASCX-64 | |
| 000137 | 001A | 2084 \$ACCZ EQU \$ASCZ-64 | |
| 000138 | | 2085 * | |
| 000139 | 0009 | 2086 \$ASCHT EQU 9 | HORIZONTAL TAB |
| 000140 | 000B | 2087 \$ASCVT EQU 11 | VERTICAL TAB |
| 000141 | 000C | 2088 \$ASCFF EQU 12 | FORM FEED |
| 000142 | 0019 | 2089 \$ASCDEM EQU 25 | END MEDIA |
| 000143 | 001D | 2090 \$ASCGRS EQU 29 | GROUP SEPERATOR |
| 000144 | 001E | 2091 \$ASCRS EQU 30 | RECORD SEPERATOR |

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DTSS L-6 HOST RESIDENT FACILITY PAGE 0005

| | | | |
|--------|------|-------------------------------|--|
| 000145 | | 2092 /EJECT | |
| 000146 | | 2093 * | |
| 000147 | | 2094 *SPEED ASSIGNMENT TABLES | |
| 000148 | | 2095 * | |
| 000149 | 0000 | 2096 \$S10 EQU 0 | LEVEL 6 CODING FOR SPEED TABLES |
| 000150 | 0002 | 2097 \$S15 EQU 2 | |
| 000151 | 0003 | 2098 \$S30 EQU 3 | |
| 000152 | 0004 | 2099 \$S60 EQU 4 | |
| 000153 | 0005 | 2100 \$S120 EQU 5 | |
| 000154 | 0006 | 2101 \$S180 EQU 6 | |
| 000155 | 000A | 2102 \$S240 EQU 10 | |
| 000156 | 000B | 2103 \$S480 EQU 11 | |
| 000157 | 000C | 2104 \$S960 EQU 12 | |
| 000158 | 000D | 2105 \$S1920 EQU 13 | |
| 000159 | | 2106 * | |
| 000160 | 0010 | 2107 \$SMAX EQU 16 | UP TO SIXTEEN DIFFERENT SPEED SETTINGS |
| 000161 | | 2108 * | |
| 000162 | | 2109 * | |
| 000163 | | 2110 *SET MODE CONSTANTS | |
| 000164 | | 2111 * | |
| 000165 | 0040 | 2112 SM\$000 EQU Z'0040' | BASE FOR MODE SETTING COMMANDS |
| 000166 | | 2113 * | |
| 000167 | 0040 | 2114 SM\$ECH EQU Z'0040' | SET ECHOPLEX |
| 000168 | 0041 | 2115 SM\$ROT EQU Z'0041' | SET RAW OUTPUT |
| 000169 | 0042 | 2116 SM\$MFR EQU Z'0042' | MAINFRAME READY |
| 000170 | 0043 | 2117 SM\$E00 EQU Z'0043' | MAINFRAME LOGICAL END OF OUTPUT |
| 000171 | 0044 | 2118 SM\$FRD EQU Z'0044' | SET FRIDEN MODE |
| 000172 | 0045 | 2119 SM\$RDO EQU Z'0045' | READ OUTSTANDING |
| 000173 | 0046 | 2120 SM\$IDY EQU Z'0046' | IDLE DELAY (TIME/FILL) |
| 000174 | | 2121 * | |
| 000175 | 0060 | 2122 SM\$DLY EQU Z'0060' | SET DELAY PARAMETERS |
| 000176 | 0060 | 2123 SM\$DL0 EQU SM\$DLY+0 | |
| 000177 | 0061 | 2124 SM\$DL1 EQU SM\$DLY+1 | |
| 000178 | 0062 | 2125 SM\$DL2 EQU SM\$DLY+2 | |
| 000179 | 0063 | 2126 SM\$DL3 EQU SM\$DLY+3 | |
| 000180 | 0064 | 2127 SM\$DL4 EQU SM\$DLY+4 | |
| 000181 | 0065 | 2128 SM\$DL5 EQU SM\$DLY+5 | |
| 000182 | 0066 | 2129 SM\$DL6 EQU SM\$DLY+6 | |
| 000183 | 0067 | 2130 SM\$DL7 EQU SM\$DLY+7 | |
| 000184 | | 2131 * | |
| 000185 | 0068 | 2132 SM\$OMD EQU Z'0068' | SET OUTPUT MODE |
| 000186 | 0068 | 2133 SM\$OM0 EQU SM\$OMD+0 | |
| 000187 | 0069 | 2134 SM\$OM1 EQU SM\$OMD+1 | |
| 000188 | 006A | 2135 SM\$OM2 EQU SM\$OMD+2 | |
| 000189 | 006B | 2136 SM\$OM3 EQU SM\$OMD+3 | |

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DTSS L-6 HOST RESIDENT FACILITY PAGE 0006

000190 3000 /EJECT
000191 3001 *
000192 3002 *HARDWARE SPECIFIC INFORMATION
000193 3003 *
000194 3004 *START OF INTERRUPT VECTOR (IV00) AND FAULT VECTOR (FV00)
000195 3005 * +1=IV01 -1=FV01
000196 3006 ***** IVECT EQU Z'0080'
000197 3007 *
000198 3008 *BIT MASK ASSIGNMENTS
000199 3009 *
000200 0001 3010 \$MKB7 EQU Z'0001'
000201 0002 3011 \$MKB6 EQU Z'0002'
000202 0004 3012 \$MKB5 EQU Z'0004'
000203 0008 3013 \$MKB4 EQU Z'0008'
000204 0010 3014 \$MKB3 EQU Z'0010'
000205 0020 3015 \$MKB2 EQU Z'0020'
000206 0040 3016 \$MKB1 EQU Z'0040'
000207 0080 3017 \$MKI EQU Z'0080'
000208 0100 3018 \$MKR7 EQU Z'0100'
000209 0200 3019 \$MKR6 EQU Z'0200'
000210 0400 3020 \$MKR5 EQU Z'0400'
000211 0800 3021 \$MKR4 EQU Z'0800'
000212 1000 3022 \$MKR3 EQU Z'1000'
000213 2000 3023 \$MKR2 EQU Z'2000'
000214 4000 3024 \$MKR1 EQU Z'4000'
000215 8000 3025 \$MKM1 EQU Z'8000'
000216 7000 3026 *
000217 0F00 3027 \$MKR13 EQU \$MKR1+\$MKR2+\$MKR3
000218 0070 3028 \$MKR47 EQU \$MKR4+\$MKR5+\$MKR6+\$MKR7
000219 000F 3029 \$MKB13 EQU \$MKB1+\$MKB2+\$MKB3
000220 9090 3030 \$MKB47 EQU \$MKB4+\$MKB5+\$MKB6+\$MKB7
000221 3031 \$MKSTD EQU \$MKM1+\$MKI+\$MKR3+\$MKB3 STANDARD REGISTERS TO SAVE
000222 3032 *
000223 3033 *
000224 3034 *IV SAVED REGISTERS OFFSET
000225 3035 *
000226 FFFC 3036 \$IVLEV EQU Z'FFFC' LEVEL ASSOCIATED (SOFT)
000227 FFFF 3037 \$IVTSA EQU Z'FFFF' TSAP
000228 0000 3038 \$IVDEV EQU 0 DEVICE
000229 0001 3039 \$IVMSK EQU 1 MASK
000230 0003 3040 \$IVP EQU 3
000231 0004 3041 \$IVS EQU 4
000232 0005 3042 \$IVREG EQU 5 START OF REGISTERS
000233 000B 3043 \$IVB1 EQU 11
000234 000C 3044 \$IVI EQU 12
000235 0013 3045 \$IVR1 EQU 19
000236 0014 3046 \$IVM1 EQU 20
000237 001B 3047 \$IVT EQU 27

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-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0007

| | | | | |
|--------|------|------|---------------------------|---|
| 000238 | | 3048 | /EJECT | |
| 000239 | | 3049 | * | |
| 000240 | | 3050 | ★TRAP SAVE AREA OFFSETS | |
| 000241 | | 3051 | * | |
| 000242 | 0000 | 3052 | \$TSAL EQU 0 | NEXT LINK |
| 000243 | 0001 | 3053 | \$TSAI EQU 1 | INDICATOR REGISTER |
| 000244 | 0002 | 3054 | \$TSAR3 EQU 2 | XR3 |
| 000245 | 0003 | 3055 | \$TSACM EQU 3 | COMMAND |
| 000246 | 0004 | 3056 | \$TSAZ EQU 4 | Z-WORD |
| 000247 | 0005 | 3057 | \$TSAA EQU 5 | ADDRESS |
| 000248 | 0006 | 3058 | \$TSAP EQU 6 | P-REGISTER |
| 000249 | 0001 | 3059 | \$TSAPX EQU \$TSAP-\$TSAA | P-REG AS ADDRESSED BY TRAP ROUTINE |
| 000250 | 0007 | 3060 | \$TSAB3 EQU 7 | XB3 |
| 000251 | 0003 | 3061 | \$TSATM EQU 8-\$TSAA | TEMP WORD |
| 000252 | 0008 | 3062 | \$TSAWD EQU 8 | FOR NON-TRAP ROUTINES, THE TEMP WORD |
| 000253 | 0009 | 3063 | \$TSALN EQU 9 | LENGTH OF TRAP SAVE AREA |
| 000254 | | 3064 | * | |
| 000255 | | 3065 | * | |
| 000256 | 6000 | 3066 | \$SRGP3 EQU Z'6000' | SREGISTER PRIORITY 3 |
| 000257 | | 3067 | * | |
| 000258 | | 3068 | * | |
| 000259 | | 3069 | ★LEVEL INSTRUCION WORDS | |
| 000260 | | 3070 | * | |
| 000261 | 803F | 3071 | \$LVEXI EQU Z'803F' | SUSPEND, SCAN, AND DISPATCH |
| 000262 | 4000 | 3072 | \$LVSCH EQU Z'4000' | SCHEDULE INTERRUPT, DEFER |
| 000263 | 8000 | 3073 | \$LVEXE EQU Z'8000' | SUSPEND, SCAN, SCHEDULE, AND DISPATCH |
| 000264 | 0000 | 3074 | \$LVENT EQU Z'0000' | SCHEDULE, SCAN, DISPATCH (RETURN LATER) |
| 000265 | 0080 | 3075 | \$LVDIS EQU Z'0080' | INHIBIT |
| 000266 | 8080 | 3076 | \$LVDSX EQU Z'8080' | SUSPEND, INHIBIT |
| 000267 | 0000 | 3077 | \$LVDIE EQU \$LVENT+0 | CRASH LEVEL INSTRUCTIONS DATA |
| 000268 | | 3078 | * | |
| 000269 | | 3079 | ★MCODE REGISTER CONSTANTS | |
| 000270 | | 3080 | * | |
| 000271 | 8080 | 3081 | \$M1JST EQU Z'8080' | SET JUMP TRACE |
| 000272 | 8000 | 3082 | \$M1JRS EQU Z'8000' | RESET JUMP TRACE |
| 000273 | 0080 | 3083 | \$M1JTS EQU Z'0080' | TEST JUMP TRACE |

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DTSS L-6 HOST RESIDENT FACILITY PAGE 0008

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|--------|------|------|---------------------|--|
| 000274 | | 3084 | /EJECT | |
| 000275 | | 3085 | * | |
| 000276 | | 3086 | *ASSIGNED LEVELS | |
| 000277 | | 3087 | * | |
| 000278 | 0000 | 3088 | ERRLEV EQU 0 | POWER FAIL AND CRASH LEVEL |
| 000279 | 0001 | 3089 | WDTLEV EQU 1 | WATCH DOG TIMER LEVEL |
| 000280 | 0002 | 3090 | TSOVLV EQU 2 | TRAP SAVE AREA OVERFLOW AREA |
| 000281 | 0003 | 3091 | HANGLV EQU 3 | STARTUP AND HANG LEVEL |
| 000282 | 0004 | 3092 | RTCLEV EQU 4 | REAL TIME CLOCK LEVEL |
| 000283 | 0005 | 3093 | WATLEV EQU 5 | WATCH COPY LEVEL |
| 000284 | 0008 | 3094 | MCPLEV EQU 8 | ASYNC MLCP LINE CARD |
| 000285 | 000A | 3095 | SX25LV EQU 10 | SYNC MLCP LINE CARD (USING X25) |
| 000286 | 0010 | 3096 | CPLRLV EQU 16 | COUPLER LEVELS (16,17,18,19) |
| 000287 | 0030 | 3097 | NETLEV EQU 48 | X25 NETWORK PACKET LEVEL |
| 000288 | 0031 | 3098 | SBSCLV EQU 49 | SYNC MLCP LINE CARD (USING BSC) |
| 000289 | 0036 | 3099 | CNSLEV EQU 54 | CONSOLE HARDWARE LEVEL (BASE FOR SOFTWARE) |
| 000290 | 0037 | 3100 | SYCLEV EQU CNSLEV+1 | SYSTEMS CONTROL LEVEL |
| 000291 | 0038 | 3101 | MSGLEV EQU SYCLEV+1 | SYSTEMS MESSAGES LEVEL |
| 000292 | 003C | 3102 | DBGLEV EQU 60 | DEBUGGER PRIMARY; SECONDARY=+1 |
| 000293 | 003E | 3103 | DEVLEV EQU 62 | LOWEST LEVEL FOR INVERTED SYNCHRONIZATION |
| 000294 | | 3104 | * | |
| 000295 | 0078 | 3105 | ONESEC EQU 120 | CLOCK IS 120 TIMES PER SECOND (.0083333) |

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DTSS L-6 HOST RESIDENT FACILITY PAGE 0009

000296 4000 /EJECT
000297 4010 *
000298 4020 *INPUT MESSAGE BUFFER DEFINITION
000299 4030 *
000300 4040 *FIRST BUFFER IN LINK WORD(0)
000301 0002 4050 CURBUF EQU 2 CURRENT BUFFER ADDRESS
000302 0003 4060 CURLEN EQU CURBUF+1 CURRENT LENGTH
000303 0004 4070 NSBERR EQU CURLEN+1 ERROR COUNTERS
000304 0005 4080 MFLAGS EQU NSBERR+1 INTERNAL TO MESSAGE FLAGS
000305 4090 *
000306 4100 *
000307 4110 *INTERNAL TO MESSAGE FLAGS (MFLAGS)
000308 4120 *
000309 8000 4130 LTLONG EQU Z'8000' LINE IS CURRENTLY TOO LONG
000310 4000 4140 IFINAL EQU Z'4000' FINAL DELIVERY
000311 2000 4150 TRPCLK EQU Z'2000' FINAL DELIVERY TRAPS CLOCKING READ
000312 4160 *
000313 4170 *
000314 4180 *MESSAGE STYLE BLOCK DEFINITION
000315 4190 *
000316 0000 4200 FRSTCK EQU 0 FIRST CLOCK TO SET
000317 0001 4210 SCNDCK EQU FRSTCK+1 SECOND (SUBSEQUENT) CLOCK TO SET
000318 0002 4220 INPMAX EQU SCNDCK+1 MAX LINE LENGTH
000319 0003 4230 STYFGS EQU INPMAX+1 INPUT STYLE BITS
000320 4240 *
000321 4250 *
000322 4260 *DEFINITIONS OF INPUT STYPE BITS
000323 4270 *
000324 8000 4280 UNEDIT EQU Z'8000' DATA SHOULD NOT BE EDITED
000325 4000 4290 IGNLTL EQU Z'4000' LINE TOO LONGS ARE IGNORED (ELSE MSG ABORT)
000326 2000 4300 IGNNSB EQU Z'2000' NO-STOP-BIT ERRORS ARE COUNTED AND FLAGGED
000327 1000 4310 ESCQTL EQU Z'1000' ESCAPES DONE WITH NO MESSAGE
000328 0800 4320 ESCDTA EQU Z'0800' ESCAPE IS DATA (ELSE IT IS LINE CANCEL)
000329 0400 4330 BKRDIA EQU Z'0400' BACKARROW IS DATA (ELSE IT IS CHARACTER DELETE)
000330 0200 4340 IGNENQ EQU Z'0200' ENQUIRY IS IGNORED (ELSE MSG GENERATED)
000331 0100 4350 IGNLF D EQU Z'0100' LINE FEEDS IGNORED (ELSE TREATED AS DATA)
000332 0080 4360 IGNDEL EQU Z'0080' RUBOUTS ARE IGNORED (ELSE TREATED AS DATA)
000333 0040 4370 IGNULL EQU Z'0040' NULLS ARE IGNORED (ELSE TREATED AS BREAK)
000334 4380 *****
000335 4390 *
000336 4400 * STANDARD DEVICE TYPE ID'S
000337 4410 *
000338 4420 *****
000339 2408 4430 COUPID EQU Z'2408' COUPLER DEVICE TYPE
000340 2010 4440 DISKID EQU Z'2010' DIU 9101 DISKETTE
000341 2118 4450 ASYID EQU Z'2118' ASYNCHRONOUS CHANNEL ID FOR MLCP
000342 2158 4460 BISID EQU Z'2158' BISYNC CHANNEL ID FOR MLCP

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-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0010

000343 5000 /EJECT
000344 5010 *
000345 5020 *COUPLER CONTROL BLOCK DEFINITIONS
000346 5030 *
000347 5040 *LEAVE ROOM FOR QUEUEING PRIORITY AND LINK
000348 0002 5050 USERQ EQU 2 QUEUE OF USERS CONNECTED TO THIS COUPLER
000349 0005 5060 CPFLGS EQU USERQ+3 FLAGS CONTROLLING FLOW
000350 0006 5070 COUPST EQU CPFLGS+1 COUPLER I/O STATE
000351 5080 *
000352 0007 5090 PSBCLK EQU COUPST+1 PLEASE STAND BY CLOCK
000353 0008 5100 PSBCNT EQU PSBCLK+1 PLEASE STAND BY COUNTER
000354 0009 5110 DEADCT EQU PSBCNT+1 DEAD CONNECTION COUNT
000355 5120 *
000356 000A 5130 OMSGFB EQU DEADCT+1 FIRST BUFFER OF OUTPUT MESSAGES
000357 000B 5140 OMSGFP EQU OMSGFB+1 ASSOCIATED POINTER
000358 000C 5150 OMSGLB EQU OMSGFP+1 LAST BUFFER OF OUTPUT MESSAGES
000359 000D 5160 OMSGLP EQU OMSGLB+1 ASSOCIATED POINTER
000360 000E 5170 IMSGBP EQU OMSGLP+1 INPUT BUFFER PARSE POINTER
000361 000F 5180 IMSGCM EQU IMSGBP+1 INPUT COMMAND/LENGTH
000362 0010 5190 IMSGLN EQU IMSGCM+1 INPUT PORT(LINE)
000363 0011 5200 IMSGBK EQU IMSGLN+1 STARTING BLOCK OF MESSAGE
000364 5210 *
000365 0012 5220 SPICMD EQU IMSGBK+1 SPECIAL INTERRUPT COMMAND
000366 0013 5230 TAL66 EQU SPICMD+1 H66 REQUESTED IO WORDS
000367 0014 5240 TAL6 EQU TAL66+1 LEVEL6 ALLOWED IO WORDS
000368 0015 5250 IOWDS EQU TAL6+1 ACTUAL NUMBER OF WORDS IO'ED
000369 0016 5260 L6BUFR EQU IOWDS+1 IO ADDRESS IN LEVEL6
000370 0017 5270 H66DTA EQU L6BUFR+1 IO ADDRESS IN HIS6600
000371 0019 5280 MBXLOC EQU H66DTA+2 LOCATION OF MAILBOX IN HIS6600
000372 001B 5290 MBXPKG EQU MBXLOC+2 CONTENTS OF HIS6600 MAILBOX
000373 0024 5300 STSLOC EQU MBXPKG+9 LOCATION OF STATUS IN HIS6600
000374 0026 5310 STATUS EQU STSLOC+2 CONTENTS OF STATUS WRITTEN TO HIS6600
000375 002B 5320 CIVDEV EQU STATUS+5 LAST DEV WORD FROM INTERRUPT
000376 002C 5330 LSTSTS EQU CIVDEV+1 LAST HARDWARE STATUS READ
000377 002E 5340 SPISTS EQU LSTSTS+2 SPURIOUS INTERRUPT STATUS
000378 5350 *
000379 0030 5360 DCWLST EQU SPISTS+2 DCW LIST FOR IO OPERATIONS
000380 5370 *
000381 003C 5380 CPLRBL EQU DCWLST+12 COUPLER BLOCK LENGTH
000382 5390 *
000383 5400 *
000384 5410 *DEFINITIONS OF COUPLER FLAGS
000385 5420 *
000386 8000 5430 IOBUSY EQU Z'8000' BUSY DOING TERMINATE REQUIRED I/O
000387 4000 5440 BUFBSY EQU Z'4000' BUFFER ACTIVE
000388 2000 5450 SLRDCK EQU Z'2000' SLOW READS CLOCK RUNNING
000389 5460 *
000390 0800 5470 RLDSET EQU Z'0800' RELOAD AT EVERY REQUEST
000391 0400 5480 L6RSET EQU Z'0400' LEVEL6 HAS RESET ALL USERS

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SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0011

000392
000393
000394
000395
000396 0020 5490 /EJECT
000397 0030 5500 *
000398 0004 5510 *CONTROL INFORMATION FOR COUPLER
000399 0002 5520 *
000400 0200 5530 L66RDC EQU Z'0020' AGREED CONSTANT FOR READ
000401 0004 5540 L66WTC EQU Z'0030' AGREED CONSTANT FOR WRITE
000402 5550 *
000403 5560 MBXWDS EQU 4 MBX IS 4 WORDS ON H66 SIDE
000404 5570 STSWDS EQU 2 STATUS IS 2 WORDS ON H66 SIDE
000405 0200 5580 CPBFLN EQU 512 L6 LENGTH OF I/O BUFFER
000406 0003 5590 *
000407 0007 5600 *
000408 0003 5610 *HIS6600 INTERRUPT CELLS
000409 0003 5620 *
000410 5630 H66TRM EQU 3 INITIATE/TERMINATE
000411 0007 5640 H66SPC EQU 7 SPECIAL
000412 5650 *
000413 0011 5660 INTH66 EQU Z'0003'+\$IOCH3 INTERRUPT HIS6600
000414 0012 5670 *
000415 0013 5680 *
000416 5690 *MISCELLANEOUS L6 IO INFORMATION
000417 5700 *
000418 0011 5720 COUPSL EQU CPLRLV+1 SPECIAL INTERRUPT (FROM HIS6600)
000419 0012 5730 COUPTL EQU COUPSL+1 TERMINATE INTERRUPT FOR L6 OPERATION
000420 0013 5740 COUPWL EQU COUPTL+1 SLAVE BUFFER PROCESSING LEVEL
000421 0038 5750 *
000422 0030 5760 *DCW COMMANDS
000423 003E 5770 *
000424 003C 5780 DWDSCI EQU Z'0038' DISCONNECT AND INTERRUPT
000425 0018 5790 DW6T66 EQU Z'003D' XFER L6 TO H66
000426 5800 DW66T6 EQU Z'003E' XFER H66 TO L6
000427 5810 DWCNFG EQU Z'003C' STORE CONFIGURATION STATUS
000428 5820 *
000429 0018 5830 DCWLEN EQU 2*6*2 LENGTH OF OUR DCW LISTS
000430 5840 *
000431 0001 5850 *DATA TRANSFER MODES
000432 0002 5860 *
000433 0003 5870 ASCMOD EQU Z'0001' ASCII MODE
000434 0011 5880 BCDMOD EQU Z'0002' BCD MODE
000435 0003 5890 BINMOD EQU Z'0003' BINARY MODE
000436 0011 5900 TLAMOD EQU Z'0011' TRANSLITERATION MODE A
000437 0021 5910 TLBMOD EQU Z'0021' TRANSLITERATION MODE B
000438 0041 5920 MSBMOD EQU Z'0041' ASCII MODE WITH MSB TEST
000439 0051 5930 TLCMOD EQU Z'0051' TRANSLITERATION MODE A WITH MSB TEST
000440 0061 5940 TLDMOD EQU Z'0061' TRANSLITERATION MODE B WITH MSB TEST

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-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0012

| | | | |
|--------|------|------|--------------------------------------|
| 000437 | | 5950 | /EJECT |
| 000438 | | 5960 | * |
| 000439 | | 5970 | *PENDING STATES FOR COUPLER SOFTWARE |
| 000440 | | 5980 | * |
| 000441 | 0000 | 5990 | CIDLE EQU 0 IDLE |
| 000442 | 0001 | 6000 | MBXRD EQU 1 MBX READING STATE |
| 000443 | 0002 | 6010 | IOXFR EQU 2 IO TRANSFER STATE |
| 000444 | 0003 | 6020 | STSWT EQU 3 STATUS WRITE STATE |
| 000445 | 0004 | 6030 | CFGRD EQU 4 CONFIGURATION READ |

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-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0013

000446 10000 /EJECT ** DISKETTE BOOTSTRAP ROUTINE **
000447 10010 *****
000448 10020 * THE BOOTSTRAP STEPS ARE :
000449 10030 * 1. READ TRACK 0, SECTORS 5-25 (TRAP ROUTINES, ETC...)
000450 10040 * 2. READ TRACK 0, SECTORS 1-4 (TRAP VECTORS, 0-100 (16))
000451 10050 * 3. READ TRACKS 1, ON
000452 10060 * 4. CLIMB THROUGH LEVEL 4 VECTOR
000453 10070 *****
000454 10080 *
000455 10090 *BOOTLOAD SOFTWARE AND LOW CORE DEFINITIONS
000456 10100 *
000457 10110 XDEF SERROR LEVEL WHERE CRASH OCCURRED
013A
000458 10120 XDEF MODULE LIST OF MODULE POINTERS
0366
000459 10130 XDEF TRAPER COMMON TRAP CATCH
035F
000460 10140 XDEF \$TSALS
0010
000461 10150 XDEF \$RTCLK,\$WDTMR
0014
0017
000462 10160 XDEF \$INTBT INTERRUPT SCHEDULE BITS
0020
000463 10170 XDEF \$BOOT
0100
000464 10180 XDEF \$TV01,\$TV02,\$TV03,\$TV04,\$TV05
007F
007E
007D
007C
007B
000465 10190 XDEF \$TV06,\$TV07,\$TV08,\$TV09,\$TV10
007A
0079
0078
0077
0076
000466 10200 XDEF \$TV11,\$TV12,\$TV13,\$TV14,\$TV15
0075
0074
0073
0072
0071
000467 10210 XDEF \$TV16,\$TV17,\$TV18,\$TV19,\$TV20
0070
006F
006E
006D
006C
000468 10220 XDEF \$TV21,\$TV22,\$TV23,\$TV24,\$TV25
006B

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SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0014

006A
0069
0068
0067
000469 10230 XDEF \$TV26,\$TV27,\$TV28,\$TV29,\$TV30
0066
0065
0064
0063
0062
000470 10240 XDEF \$TV31,\$TV32,\$TV33,\$TV34,\$TV35
0061
0060
005F
005E
005D
000471 10250 XDEF \$TV36,\$TV37,\$TV38,\$TV39,\$TV40
005C
005B
005A
0059
0058
000472 10260 XDEF \$TV41,\$TV42,\$TV43,\$TV44,\$TV45
0057
0056
0055
0054
0053
000473 10270 XDEF \$TV46
0052

| | | | | | |
|--------|------|-------|----------|--|---|
| 000474 | | 10280 | /EJECT | | |
| 000475 | | 10290 | * | | |
| 000476 | | 10300 | * | BOOTLOAD SOFTWARE AND LOW CORE DEFINITIONS | |
| 000477 | | 10310 | * | | |
| 000478 | | 10320 | * | DEFINITIONS | |
| 000479 | 0068 | 10330 | HEADRS | EQU 104 | NUMBER OF FORMAT BYTES/TRACK ON DIU9101 |
| 000480 | 0000 | 10340 | ZERO | EQU 0 | |
| 000481 | 0001 | 10350 | ONE | EQU 1 | |
| 000482 | 0002 | 10360 | TWO | EQU 2 | |
| 000483 | | 10370 | * | | |
| 000484 | | 10380 | * | REGISTER DEFINTIONS | |
| 000485 | 0020 | 10390 | RANGE | EQU \$R2 | NUMBER OF BYTES |
| 000486 | 0020 | 10400 | CHANEL | EQU \$R1 | CHANNEL (WITH DIRECTION) |
| 000487 | 0020 | 10410 | TRACK | EQU \$R4 | TRACK NUMBER |
| 000488 | | 10420 | * | | |
| 000489 | 0020 | 10430 | TRNS | EQU \$B6 | SUBROUTINE RETURN REGISTER |
| 000490 | 0020 | 10440 | BASE | EQU \$B7 | CURRENT SEGMENT BEGINNING |
| 000491 | | 10450 | * | | |
| 000492 | | 10460 | * | DISKETTE OPERATION CODES | |
| 000493 | 0009 | 10470 | 0\$ADDR | EQU Z'0009' | MEMORY ADDRESS SET |
| 000494 | 000D | 10480 | 0\$RANG | EQU Z'000D' | SET TRANSFER LENGTH IN BYTES |
| 000495 | 0011 | 10490 | 0\$CWA | EQU Z'0011' | SET TRACK&HEAD |
| 000496 | 0013 | 10500 | 0\$CWB | EQU Z'0013' | SET SECTOR NUMBER |
| 000497 | 0003 | 10510 | 0\$INTC | EQU Z'0003' | SET INTERRUPT CONTROL WORD |
| 000498 | 0007 | 10520 | 0\$TASK | EQU Z'0007' | OUTPUT TASK REG (READ&WRITE) |
| 000499 | 0001 | 10530 | 0\$CNTL | EQU Z'0001' | SET CONTROL WORD |
| 000500 | | 10540 | * | | |
| 000501 | 000C | 10550 | I\$RANG | EQU Z'000C' | READ RANGE REG |
| 000502 | 0010 | 10560 | I\$CWA | EQU Z'0010' | READ TRACK&HEAD |
| 000503 | 0012 | 10570 | I\$CWB | EQU Z'0012' | READ SECTOR NUMBER |
| 000504 | 0002 | 10580 | I\$INTC | EQU Z'0002' | READ INTERRUPT CONTROL |
| 000505 | 0026 | 10590 | I\$DVID | EQU Z'0026' | GET DEVICE TYPE |
| 000506 | 0006 | 10600 | I\$TASK | EQU Z'0006' | READ TASK REG |
| 000507 | 0018 | 10610 | I\$STAT | EQU Z'0018' | GET STATUS |
| 000508 | | 10620 | * | | |
| 000509 | | 10630 | * | DEVICE ORDERS (DATA BUS COMMANDS) | |
| 000510 | 0000 | 10640 | 0RCALS | EQU Z'0000' | RECALIBRATE |
| 000511 | 0100 | 10650 | 0SEEK\$ | EQU Z'0100' | SEEK |
| 000512 | 8000 | 10660 | 0FRMTS\$ | EQU Z'8000' | FORMATTED WRITE |
| 000513 | 8100 | 10670 | 0RW\$ | EQU Z'8100' | READ/WRITE DATA |
| 000514 | 8500 | 10680 | 0DDRWS\$ | EQU Z'8500' | DELETED DATA READ/WRITE |
| 000515 | 8300 | 10690 | 0DRWS\$ | EQU Z'8300' | DIAGNOSTIC READ/WRITE |
| 000516 | C000 | 10700 | 0WRAPS\$ | EQU Z'C000' | WRAPAROUND READ/WRITE |
| 000517 | | 10710 | * | | |
| 000518 | | 10720 | * | | |
| 000519 | 0100 | 10730 | U | EQU Z'0100' | UPPER HALF ADJUSTER |
| 000520 | | 10740 | * | | |
| 000521 | | 10750 | * | | |
| 000522 | | 10760 | * | DISKETTE DEFINTIONS | |
| 000523 | 0D00 | 10770 | TRKSIZ | EQU 26*128 | BYTE PER TRACK |
| 000524 | 0080 | 10780 | SECSIZ | EQU 128 | BYTES PER SECTOR |
| 000525 | 0280 | 10790 | LOWSEC | EQU 5*128 | BYTES OF SHUFFLED LOW MEMORY |

DBTL SOFTWARE -SAF 1981/12/24 10:12:47 HRF ASSEMBLER DTSS L-6 HOST RESIDENT FACILITY PAGE 0016

| | | | | |
|--------|-------|--------|---------|-----------------------|
| 000526 | 10800 | /EJECT | | |
| 000527 | 10810 | * | | |
| 000528 | 10820 | * | | |
| 000529 | 10830 | XLOC | ENDING | END OF CONGLOMERATION |
| 000530 | 10840 | XDEF | \$IVECT | |
| 000531 | 0080 | XDEF | START | BEGINNING MARKER |
| 0100 | 10850 | | | |
| 000532 | 10860 | XLOC | INIT | REAL SOFTWARE INIT |

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SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0017

| | | | | | | |
|--------|------|------|-------|---------|--|-----------------------------------|
| 000533 | | | 10870 | /EJECT | | |
| 000534 | | | 10880 | * | | |
| 000535 | | | 10890 | ***** | ***** | |
| 000536 | | | 10900 | * | THE FOLLOWING 'SURREALISTIC' TRAP VECTORS, ETC | |
| 000537 | | | 10910 | * | ARE DEFINED TO CORRECTLY SATISFY XDEF'S | |
| 000538 | | | 10920 | * | EXPECTED BY THE REST OF THE L6 SOFTWARE. | |
| 000539 | | | 10930 | ***** | ***** | |
| 000540 | | | 10940 | * | | |
| 000541 | 0000 | 0000 | 10950 | RESV | 16,Z'0000' | 00X TO 0FX |
| 000542 | 0010 | 02E1 | 10960 | \$TSALS | DC <TSABKO | FIRST TRAP BLOCK (10X) |
| 000543 | 0011 | 0000 | 10970 | | RESV 3,Z'0000' | 11X TO 13X |
| 000544 | 0014 | 0000 | 10980 | \$RTCLK | RESV 3,Z'0000' | REAL TIME CLOCK LOCATIONS |
| 000545 | 0017 | 0000 | 10990 | \$WDTMR | DC Z'0000' | WATCH DOG TIMER |
| 000546 | 0018 | 0000 | 11000 | | RESV 8,Z'0000' | 18X THRU 1FX |
| 000547 | 0020 | 0000 | 11010 | \$INTBT | RESV 4,Z'0000' | INTERRUPT SCHEDULE BITS |
| 000548 | | | 11020 | * | | |
| 000549 | | | 11030 | * | TRAP VECTORS | |
| 000550 | | | 11040 | * | | |
| 000551 | 0024 | 0000 | 11050 | | RESV 46,Z'0000' | UNUSED PORTION OF SAF TRAP VECTOR |
| 000552 | 0052 | 02FE | 11060 | \$TV46 | DC <HLTP46 | TRAP VECTOR 46 |
| 000553 | 0053 | 0300 | 11070 | \$TV45 | DC <HLTP45 | TRAP VECTOR 45 |
| 000554 | 0054 | 0302 | 11080 | \$TV44 | DC <HLTP44 | TRAP VECTOR 44 |
| 000555 | 0055 | 0304 | 11090 | \$TV43 | DC <HLTP43 | TRAP VECTOR 43 |
| 000556 | 0056 | 0306 | 11100 | \$TV42 | DC <HLTP42 | TRAP VECTOR 42 |
| 000557 | 0057 | 0308 | 11110 | \$TV41 | DC <HLTP41 | TRAP VECTOR 41 |
| 000558 | 0058 | 030A | 11120 | \$TV40 | DC <HLTP40 | TRAP VECTOR 40 |
| 000559 | 0059 | 030C | 11130 | \$TV39 | DC <HLTP39 | TRAP VECTOR 39 |
| 000560 | 005A | 030E | 11140 | \$TV38 | DC <HLTP38 | TRAP VECTOR 38 |
| 000561 | 005B | 0310 | 11150 | \$TV37 | DC <HLTP37 | TRAP VECTOR 37 |
| 000562 | 005C | 0312 | 11160 | \$TV36 | DC <HLTP36 | TRAP VECTOR 36 |
| 000563 | 005D | 0314 | 11170 | \$TV35 | DC <HLTP35 | TRAP VECTOR 35 |
| 000564 | 005E | 0316 | 11180 | \$TV34 | DC <HLTP34 | TRAP VECTOR 34 |
| 000565 | 005F | 0318 | 11190 | \$TV33 | DC <HLTP33 | TRAP VECTOR 33 |
| 000566 | 0060 | 031A | 11200 | \$TV32 | DC <HLTP32 | TRAP VECTOR 32 |
| 000567 | 0061 | 031C | 11210 | \$TV31 | DC <HLTP31 | TRAP VECTOR 31 |
| 000568 | 0062 | 031E | 11220 | \$TV30 | DC <HLTP30 | TRAP VECTOR 30 |
| 000569 | 0063 | 0320 | 11230 | \$TV29 | DC <HLTP29 | TRAP VECTOR 29 |
| 000570 | 0064 | 0322 | 11240 | \$TV28 | DC <HLTP28 | TRAP VECTOR 28 |
| 000571 | 0065 | 0324 | 11250 | \$TV27 | DC <HLTP27 | TRAP VECTOR 27 |
| 000572 | 0066 | 0326 | 11260 | \$TV26 | DC <HLTP26 | TRAP VECTOR 26 |
| 000573 | 0067 | 0328 | 11270 | \$TV25 | DC <HLTP25 | TRAP VECTOR 25 |
| 000574 | 0068 | 032A | 11280 | \$TV24 | DC <HLTP24 | TRAP VECTOR 24 |
| 000575 | 0069 | 032C | 11290 | \$TV23 | DC <HLTP23 | TRAP VECTOR 23 |
| 000576 | 006A | 032E | 11300 | \$TV22 | DC <HLTP22 | TRAP VECTOR 22 |
| 000577 | 006B | 0330 | 11310 | \$TV21 | DC <HLTP21 | TRAP VECTOR 21 |
| 000578 | 006C | 0332 | 11320 | \$TV20 | DC <HLTP20 | TRAP VECTOR 20 |
| 000579 | 006D | 0334 | 11330 | \$TV19 | DC <HLTP19 | TRAP VECTOR 19 |
| 000580 | 006E | 0336 | 11340 | \$TV18 | DC <HLTP18 | TRAP VECTOR 18 |
| 000581 | 006F | 0338 | 11350 | \$TV17 | DC <HLTP17 | TRAP VECTOR 17 |
| 000582 | 0070 | 033A | 11360 | \$TV16 | DC <HLTP16 | TRAP VECTOR 16 |
| 000583 | 0071 | 033C | 11370 | \$TV15 | DC <HLTP15 | TRAP VECTOR 15 |
| 000584 | 0072 | 033E | 11380 | \$TV14 | DC <HLTP14 | TRAP VECTOR 14 |

DBTL SOFTWARE -SAF 1981/12/24 10:12:47 HRF ASSEMBLER DTSS L-6 HOST RESIDENT FACILITY PAGE 0018

| | | | | | | | |
|--------|------|------|-------|---------|-------------------|------------|---|
| 000585 | 0073 | 0340 | 11390 | \$TV13 | DC | <HLTP13 | TRAP VECTOR 13 |
| 000586 | 0074 | 0342 | 11400 | \$TV12 | DC | <HLTP12 | TRAP VECTOR 12 |
| 000587 | 0075 | 0344 | 11410 | \$TV11 | DC | <HLTP11 | TRAP VECTOR 11 |
| 000588 | 0076 | 0346 | 11420 | \$TV10 | DC | <HLTP10 | TRAP VECTOR 10 |
| 000589 | 0077 | 0348 | 11430 | \$TV09 | DC | <HLTP09 | TRAP VECTOR 09 |
| 000590 | 0078 | 034A | 11440 | \$TV08 | DC | <HLTP08 | TRAP VECTOR 08 |
| 000591 | 0079 | 034C | 11450 | \$TV07 | DC | <HLTP07 | TRAP VECTOR 07 |
| 000592 | 007A | 034E | 11460 | \$TV06 | DC | <HLTP06 | TRAP VECTOR 06 |
| 000593 | 007B | 0350 | 11470 | \$TV05 | DC | <HLTP05 | TRAP VECTOR 05 |
| 000594 | 007C | 0352 | 11480 | \$TV04 | DC | <HLTP04 | TRAP VECTOR 04 |
| 000595 | 007D | 0354 | 11490 | \$TV03 | DC | <HLTP03 | TRAP VECTOR 03 |
| 000596 | 007E | 0356 | 11500 | \$TV02 | DC | <HLTP02 | TRAP VECTOR 02 |
| 000597 | 007F | 035C | 11510 | \$TV01 | DC | <HLTP01 | TRAP VECTOR 01 |
| 000598 | | | 11520 | * | | | |
| 000599 | | | 11530 | * | | | |
| 000600 | | | 11540 | * | INTERRUPT VECTORS | | |
| 000601 | | | 11550 | * | | | |
| 000602 | | 0080 | 11560 | \$IVECT | EQU | \$ | 80X START OF INTERRUPT VECTOR |
| 000603 | 0080 | 02CC | 11570 | | DC | <ERRIV | LOCATION OF POWER FAIL/CRASH VECTOR |
| 000604 | 0081 | 0000 | 11580 | | DC | Z'0000' | LOCATION OF WATCH DOG TIMER VECTOR |
| 000605 | 0082 | 02B4 | 11590 | | DC | <TSOVIV | LOCATION OF TRAP SAVE AREA OVERFLOW VECTOR |
| 000606 | 0083 | 0000 | 11600 | | DC | Z'0000' | HANG LEVEL |
| 000607 | 0084 | 029C | 11610 | | DC | <INITIV | INITIALIZATION THEN REAL TIME CLOCK |
| 000608 | 0085 | 0000 | 11620 | | RESV | 58,Z'0000' | INTERRUPT VECTORS 05 THRU 62 ARE PROGRAMMED |
| 000609 | 00BF | 0284 | 11630 | | DC | <IDLEIV | LOCATION OF IV63 WHICH IS IDLE VECTOR |
| 000610 | | | 11640 | * | | | |
| 000611 | 00C0 | 0000 | 11650 | | RESV | 64,Z'0000' | UNUSED PORTION OF SAF INTERRUPT VECTOR |

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SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0019

000612 11660 /EJECT CODE STARTING POINT
000613 11670 *
000614 11680 *
000615 11690 * BOOTLOAD SOFTWARE (STARTS AT 0100x)
000616 11700 *
000617 11710 * REAL TIME CLOCK AND WATCH DOG TIMER ARE ASSUMED OFF AFTER BOOTLOAD
000618 11720 *
000619 11730 *
000620 11740 *****
000621 11750 * FIRST EXECUTION STEP -
000622 11760 * READ TRACK 0, SECTORS 5-25
000623 11770 * GETS THE TRAP ROUTINES, ETC...
000624 11780 * IN PARTICULAR, GETS REST OF BOOTSTRAP
000625 11790 START RESV 0 MARK START FOR DISKETTE WRITER
000626 11800 \$BOOT RESV 0 START OF BOOTSTRAP
000627 0100 ABC0 0027 11810 LAB \$B2,CMDLIS SET STANDARD COMMAND LIST PTR
000628 0102 4C00 11820 LDV TRACK,ZERO DO TRACK ZERO FIRST
000629 0103 A870 0A80 11830 LDR RANGE,=TRKSIZ-LOWSEC "DO ALL BUT FIRST FIVE SECTORS NOW
000630 0105 FB80 0480 11840 LAB BASE,<MORE2 SET HIGHER BASE
000631 0107 E3C0 0003 11850 LNJ TRNS,READ READ MOST OF TRACK 0
000632 0109 0F80 0240 11860 B <CONT TRICKY BOOTSTRAP TRANSFER

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SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0020

| | | | | | |
|--------|----------------|-------|---|-----------------|----------------------------|
| 000633 | | 11870 | /EJECT ** ROUTINE TO READ FROM DISKETTE ** | | |
| 000634 | | 11880 | ***** | | |
| 000635 | | 11890 | ★ READ ROUTINE USING REGISTERS FOR PARAMETERS | | |
| 000636 | | 11900 | ★ THE COMMAND LIST AND DATA LIST ARE | | |
| 000637 | | 11910 | ★ THE SAME LENGTH AND PRESET FOR A READ CHAIN | | |
| 000638 | | 11920 | ★ LENGTH, TRKNUM, & SECNUM ARE SET BY CALLER | | |
| 000639 | | 11930 | ***** | | |
| 000640 | | 11940 | READ RESV 0 | | |
| 000641 | | 11950 | ★ | | |
| 000642 | | 11960 | ★ ON INPUT | | |
| 000643 | | 11970 | ★ R1 = CHANNEL NUMBER | | |
| 000644 | | 11980 | ★ R2 = RANGE | | |
| 000645 | | 11990 | ★ R3 USED AS COMMAND LIST OFFSET | | |
| 000646 | | 12000 | ★ R4 = TRACK NUMBER | | |
| 000647 | | 12010 | ★ B7 = DATA LOCATION PTR | | |
| 000648 | | 12020 | ★ B6 = RETURN POINTER | | |
| 000649 | | 12030 | ★ B3 ==> DATA LIST POINTER | | |
| 000650 | | 12040 | ★ B2 ==> COMMAND LIST POINTER | | |
| 000651 | | 12050 | ★ | | |
| 000652 | 3F27 | 12060 | BADSTS EQU Z'3F27' | BAD STATUS BITS | |
| 000653 | 1616 | 12070 | HALT EQU Z'1616' | BAD STATUS FLAG | |
| 000654 | 003F | 12080 | MASK EQU Z'003F' | COMMAND MASK | |
| 000655 | | 12090 | ★ | | |
| 000656 | 010B AF00 012D | 12100 | STR | RANGE,<LENGTH | SET RANGE REG |
| 000657 | 010D FFC0 001E | 12110 | STB | BASE,DATLOC | STUFF MEMORY ADDRESS |
| 000658 | 010F C780 012E | 12120 | STH | TRACK,<TRKNUM | STUFF TRACK NUMBER |
| 000659 | | 12130 | ★ | | |
| 000660 | 0111 BBC0 001A | 12140 | LAB | \$B3,DATLIS | SET DATA LIST PTR AFRESH |
| 000661 | 0113 3C00 | 12150 | LDV | \$R3,ZERO | NOTHING DONE YET |
| 000662 | | 12160 | ★ | | |
| 000663 | | 12170 | IOLoop RESV 0 | | |
| 000664 | 0114 3D08 | 12180 | CMV | \$R3,DATLEN | DONE YET? |
| 000665 | 0115 0980 | 12190 | BNE | >+\$A | NOPE |
| 000666 | 0116 8386 | 12200 | JMP | TRNS | YEP |
| 000667 | | 12210 | ★ | | |
| 000668 | | 12220 | \$A RESV 0 | | |
| 000669 | 0117 E2FE | 12230 | LLH | \$R6,\$B2,+\$R3 | GET COMMAND |
| 000670 | 0118 D873 | 12240 | LDR | \$R5,+\$B3 | GET DATA BUS INFO |
| 000671 | | 12250 | \$B RESV 0 | | |
| 000672 | 0119 E451 | 12260 | OR | \$R6,=CHANEL | GET CHANNEL ALSO |
| 000673 | 011A 8055 | 12270 | IO | =\$R5,=\$R6 | |
| 000674 | 011B 0056 | 12280 | ★ | | |
| 000675 | 011C E570 003F | 12290 | AND | \$R6,=MASK | ISOLATE COMMAND |
| 000676 | 011E 6D18 | 12300 | CMV | \$R6,I\$STAT | STATUS CHECK? |
| 000677 | 011F 09F5 | 12310 | BNE | >IOLoop | NOPE, DON'T WORRY 'BOUT IT |
| 000678 | | 12320 | ★ | | |
| 000679 | 0120 07F9 | 12330 | BIOF | >-\$B | AWAIT COMPLETION |
| 000680 | 0121 D570 3F27 | 12340 | AND | \$R5,=BADSTS | STATUS OK? |
| 000681 | 0123 5971 | 12350 | BEZ | \$R5,>IOLoop | SORIGHT |
| 000682 | | 12360 | ★ | | |
| 000683 | 0124 9870 1616 | 12370 | LDR | \$R1,=HALT | SET FLAG |

DBTL SOFTWARE -SAF 1981/12/24 10:12:47 HRF ASSEMBLER DTSS L-6 HOST RESIDENT FACILITY PAGE 0021

| | | | | | | |
|--------|------|-----------|---------|--------|--------------------------|----------------------|
| 000684 | 0126 | 8E70 0000 | 12380 | LEV | =\$LVDIE | PLAY TAPS |
| 000685 | | | 12390 * | | | |
| 000686 | | | 12400 | CMDLIS | RESV | 0 |
| 000687 | 0128 | 090D | 12410 | DC | 0\$ADDR*U+0\$RANG | SET START & LENGTH |
| 000688 | 0129 | 1113 | 12420 | DC | 0\$CWA*U+0\$CWB | SET SEEK & SECTOR |
| 000689 | 012A | 0718 | 12430 | DC | 0\$TASK*U+I\$STAT | SEEK & DESTROY |
| 000690 | 012B | 0718 | 12440 | DC | 0\$TASK*U+I\$STAT | READ TASK |
| 000691 | | | 12450 * | | | |
| 000692 | | | 12460 | DATLIS | RESV | 0 |
| 000693 | 012C | 0000 | 12470 | DATLOC | DC | 0 |
| 000694 | 012D | 0000 | 12480 | LENGTH | DC | 0 |
| 000695 | 012E | 0000 | 12490 | TRKNUM | DC | 0 |
| 000696 | 012F | 0500 | 12500 | SECNUM | DC | LOWSEC/SECSIZ*U |
| 000697 | 0130 | 0100 | 12510 | DC | 0SEEK\$ | SEEK ORDER |
| 000698 | 0131 | 0000 | 12520 | DC | 0 | FOR STATUS |
| 000699 | 0132 | 8100 | 12530 | DC | 0RW\$ | READ DATA ORDER |
| 000700 | 0133 | 0000 | 12540 | DC | 0 | FOR STATUS |
| 000701 | | 0134 | 12550 | DATEND | EQU | \$ |
| 000702 | | 0008 | 12560 | DATLEN | EQU | -\$-DATLIS |
| 000703 | | | 12570 | ***** | ***** | ***** |
| 000704 | | | 12580 | * | HANDLE TSA AREA OVERFLOW | |
| 000705 | | | 12590 | TSAOVR | RESV | 0 |
| 000706 | 0134 | 8C00 013A | 12600 | STS | <SError | SAVE CRASH LEVEL |
| 000707 | 0136 | 8E70 0000 | 12610 | LEV | =\$LVDIE | ADIOS |
| 000708 | | | 12620 | \$B | RESV | 0 |
| 000709 | 0138 | 0000 | 12630 | | HLT | |
| 000710 | 0139 | 0FFF | 12640 | | B | >-\$B |
| 000711 | | | 12650 | * | | |
| 000712 | 013A | 0000 | 12660 | SERROR | DC | Z'0000' LEVEL SAVIOR |

DBTL SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0022

| | | | |
|--------|------|------------|---|
| 000713 | | 12670 / | REGRETTABLE TRICKY, KLUDGE FOR BOOTSTRAPPING |
| 000714 | 0140 | 12680 | ORG \$BOOT+X'0040' SPACE FOR SECTOR SCHISM |
| 000715 | | 12690 MORE | EQU \$ START OF BOOTSTRAP CONTINUATION |
| 000716 | 0134 | 12700 | ORG DATEND RESET PC FOR RESERVATION |
| 000717 | 0134 | 12710 | RESV (MORE-DATEND),Z'0000' "SPACE FOR SECOND PART OF BOOTSTRAP" |
| 000718 | 0140 | 12720 | ORG \$BOOT+X'0040' RESET PC FOR REAL |

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SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0023

| | | | | | | |
|--------|------|------|-------|--------|--|-----------------------------------|
| 000719 | | | 12730 | /EJECT | | |
| 000720 | | | 12740 | * | | |
| 000721 | | | 12750 | * | THE FOLLOWING REAL TRAP VECTORS, ETC ARE PUT TO DISKETTE | |
| 000722 | | | 12760 | * | SECTORS 1-4 BUT READ INTO 0-FF | |
| 000723 | | | 12770 | * | | |
| 000724 | 0140 | 0000 | 12780 | RESV | 16,Z'0000' | 00X TO 0FX |
| 000725 | 0150 | 02E1 | 12790 | TSALS | DC <TSABKO | FIRST TRAP BLOCK (10X) |
| 000726 | 0151 | 0000 | 12800 | RESV | 3,Z'0000' | 11X TO 13X |
| 000727 | 0154 | 0000 | 12810 | RTCLK | RESV 3,Z'0000' | REAL TIME CLOCK LOCATIONS |
| 000728 | 0157 | 0000 | 12820 | WDTMR | DC Z'0000' | WATCH DOG TIMER |
| 000729 | 0158 | 0000 | 12830 | RESV | 8,Z'0000' | 18X THRU 1FX |
| 000730 | 0160 | 0000 | 12840 | INTBT | RESV 4,Z'0000' | INTERRUPT SCHEDULE BITS |
| 000731 | | | 12850 | * | | |
| 000732 | | | 12860 | * | TRAP VECTORS | |
| 000733 | | | 12870 | * | | |
| 000734 | 0164 | 0000 | 12880 | RESV | 46,Z'0000' | UNUSED PORTION OF SAF TRAP VECTOR |
| 000735 | 0192 | 02FE | 12890 | TV46 | DC <HLTP46 | TRAP VECTOR 46 |
| 000736 | 0193 | 0300 | 12900 | TV45 | DC <HLTP45 | TRAP VECTOR 45 |
| 000737 | 0194 | 0302 | 12910 | TV44 | DC <HLTP44 | TRAP VECTOR 44 |
| 000738 | 0195 | 0304 | 12920 | TV43 | DC <HLTP43 | TRAP VECTOR 43 |
| 000739 | 0196 | 0306 | 12930 | TV42 | DC <HLTP42 | TRAP VECTOR 42 |
| 000740 | 0197 | 0308 | 12940 | TV41 | DC <HLTP41 | TRAP VECTOR 41 |
| 000741 | 0198 | 030A | 12950 | TV40 | DC <HLTP40 | TRAP VECTOR 40 |
| 000742 | 0199 | 030C | 12960 | TV39 | DC <HLTP39 | TRAP VECTOR 39 |
| 000743 | 019A | 030E | 12970 | TV38 | DC <HLTP38 | TRAP VECTOR 38 |
| 000744 | 019B | 0310 | 12980 | TV37 | DC <HLTP37 | TRAP VECTOR 37 |
| 000745 | 019C | 0312 | 12990 | TV36 | DC <HLTP36 | TRAP VECTOR 36 |
| 000746 | 019D | 0314 | 13000 | TV35 | DC <HLTP35 | TRAP VECTOR 35 |
| 000747 | 019E | 0316 | 13010 | TV34 | DC <HLTP34 | TRAP VECTOR 34 |
| 000748 | 019F | 0318 | 13020 | TV33 | DC <HLTP33 | TRAP VECTOR 33 |
| 000749 | 01A0 | 031A | 13030 | TV32 | DC <HLTP32 | TRAP VECTOR 32 |
| 000750 | 01A1 | 031C | 13040 | TV31 | DC <HLTP31 | TRAP VECTOR 31 |
| 000751 | 01A2 | 031E | 13050 | TV30 | DC <HLTP30 | TRAP VECTOR 30 |
| 000752 | 01A3 | 0320 | 13060 | TV29 | DC <HLTP29 | TRAP VECTOR 29 |
| 000753 | 01A4 | 0322 | 13070 | TV28 | DC <HLTP28 | TRAP VECTOR 28 |
| 000754 | 01A5 | 0324 | 13080 | TV27 | DC <HLTP27 | TRAP VECTOR 27 |
| 000755 | 01A6 | 0326 | 13090 | TV26 | DC <HLTP26 | TRAP VECTOR 26 |
| 000756 | 01A7 | 0328 | 13100 | TV25 | DC <HLTP25 | TRAP VECTOR 25 |
| 000757 | 01A8 | 032A | 13110 | TV24 | DC <HLTP24 | TRAP VECTOR 24 |
| 000758 | 01A9 | 032C | 13120 | TV23 | DC <HLTP23 | TRAP VECTOR 23 |
| 000759 | 01AA | 032E | 13130 | TV22 | DC <HLTP22 | TRAP VECTOR 22 |
| 000760 | 01AB | 0330 | 13140 | TV21 | DC <HLTP21 | TRAP VECTOR 21 |
| 000761 | 01AC | 0332 | 13150 | TV20 | DC <HLTP20 | TRAP VECTOR 20 |
| 000762 | 01AD | 0334 | 13160 | TV19 | DC <HLTP19 | TRAP VECTOR 19 |
| 000763 | 01AE | 0336 | 13170 | TV18 | DC <HLTP18 | TRAP VECTOR 18 |
| 000764 | 01AF | 0338 | 13180 | TV17 | DC <HLTP17 | TRAP VECTOR 17 |
| 000765 | 01B0 | 033A | 13190 | TV16 | DC <HLTP16 | TRAP VECTOR 16 |
| 000766 | 01B1 | 033C | 13200 | TV15 | DC <HLTP15 | TRAP VECTOR 15 |
| 000767 | 01B2 | 033E | 13210 | TV14 | DC <HLTP14 | TRAP VECTOR 14 |
| 000768 | 01B3 | 0340 | 13220 | TV13 | DC <HLTP13 | TRAP VECTOR 13 |
| 000769 | 01B4 | 0342 | 13230 | TV12 | DC <HLTP12 | TRAP VECTOR 12 |
| 000770 | 01B5 | 0344 | 13240 | TV11 | DC <HLTP11 | TRAP VECTOR 11 |

| DBTL | SOFTWARE | -SAF | 1981/12/24 | 10:12:47 | HRF ASSEMBLER | DTSS L-6 HOST RESIDENT FACILITY PAGE 0024 |
|--------|----------|------|------------|----------|---------------------|---|
| 000771 | 01B6 | 0346 | | 13250 | TV10 DC <HLTP10 | TRAP VECTOR 10 |
| 000772 | 01B7 | 0348 | | 13260 | TV09 DC <HLTP09 | TRAP VECTOR 09 |
| 000773 | 01B8 | 034A | | 13270 | TV08 DC <HLTP08 | TRAP VECTOR 08 |
| 000774 | 01B9 | 034C | | 13280 | TV07 DC <HLTP07 | TRAP VECTOR 07 |
| 000775 | 01BA | 034E | | 13290 | TV06 DC <HLTP06 | TRAP VECTOR 06 |
| 000776 | 01BB | 0350 | | 13300 | TV05 DC <HLTP05 | TRAP VECTOR 05 |
| 000777 | 01BC | 0352 | | 13310 | TV04 DC <HLTP04 | TRAP VECTOR 04 |
| 000778 | 01BD | 0354 | | 13320 | TV03 DC <HLTP03 | TRAP VECTOR 03 |
| 000779 | 01BE | 0356 | | 13330 | TV02 DC <HLTP02 | TRAP VECTOR 02 |
| 000780 | 01BF | 035C | | 13340 | TV01 DC <HLTP01 | TRAP VECTOR 01 |
| 000781 | | | | 13350 | * | |
| 000782 | | | | 13360 | * | |
| 000783 | | | | 13370 | * INTERRUPT VECTORS | |
| 000784 | | | | 13380 | * | |
| 000785 | | 01C0 | | 13390 | IVECT EQU \$ | 80 (16) START OF INTERRUPT VECTORS |
| 000786 | 01C0 | 02CC | | 13400 | DC <ERRIV | LOCATION OF POWER FAIL/CRASH VECTOR |
| 000787 | 01C1 | 0000 | | 13410 | DC Z'0000' | LOCATION OF WATCH DOG TIMER VECTOR |
| 000788 | 01C2 | 02B4 | | 13420 | DC <TSOVIV | LOCATION OF TRAP SAVE AREA OVERFLOW VECTOR |
| 000789 | 01C3 | 0000 | | 13430 | DC Z'0000' | HANG LEVEL |
| 000790 | 01C4 | 029C | | 13440 | DC <INITIV | INITIALIZATION THEN REAL TIME CLOCK |
| 000791 | 01C5 | 0000 | | 13450 | RESV 58,Z'0000' | INTERRUPT VECTORS 05 THRU 62 ARE PROGRAMMED |
| 000792 | 01FF | 0284 | | 13460 | DC <IDLEIV | LOCATION OF IV63 WHICH IS IDLE VECTOR |
| 000793 | | | | 13470 | * | |
| 000794 | 0200 | 0000 | | 13480 | RESV 64,Z'0000' | UNUSED PORTION OF SAF INTERRUPT VECTOR |

DBTL SOFTWARE -SAF 1981/12/24 10:12:47 HRF ASSEMBLER DTSS L-6 HOST RESIDENT FACILITY PAGE 0025

| | | | | |
|----------|----------------|-------|--------|---|
| 000795 | | 13490 | / | REAL CODE LOADED AT LOCATION 'MORE' |
| 000796 | | 13500 | ***** | ***** |
| 000797 | | 13510 | * | CONTINUATION OF BOOTSTRAP |
| 000798 | | 13520 | * | 1. READ TRACK 0, SECTORS 1-4 (TRAP VECTORS, ETC.) |
| 000799 | | 13530 | * | 2. LOOP, READING TRACKS 1, ON TIL "ENDING" |
| 000800 | | 13540 | * | 3. CLIMB TO LEVEL 4 FOR REGULAR INITIALIZATION |
| 000801 | | 13550 | ***** | ***** |
| 000802 | | 13560 | XLOC | INITCP,RSTART |
| 000803 | | 13570 | CONT | RESV 0 |
| E 000804 | 0480 | 13580 | MORE2 | EQU ALS(CONT,ONE) |
| 000805 | 0240 F870 0100 | 13590 | LDR | \$R7,=ONE*U |
| 000806 | 0242 FF00 012F | 13600 | STR | \$R7,<SECNUM |
| 000807 | 0244 A870 0200 | 13610 | LDR | RANGE,=LOWSEC-SECSIZ "4 SECTORS |
| 000808 | 0246 FCC0 0031 | 13620 | LDB | BASE,ZILCH |
| 000809 | 0248 9F40 004E | 13630 | STR | CHANEL,L63\$R1 |
| 000810 | 024A E380 010B | 13640 | LNJ | TRNS,<READ |
| 000811 | 024C 8E70 803F | 13650 | LEV | =\$LVEXI |
| 000812 | 024E 8380 0000 | 13660 | JMP | <RSTART |
| 000813 | | 13670 | * | |
| 000814 | | 13680 | RESTOF | RESV 0 |
| 000815 | | 13690 | * | ENTRY FROM LEVEL 63 VECTOR |
| 000816 | 0250 ABC0 FED7 | 13700 | LAB | \$B2,CMDLIS |
| 000817 | 0252 8700 012F | 13710 | CL | <SECNUM |
| 000818 | 0254 A870 0D00 | 13720 | LDR | RANGE,=TRKSIZ |
| 000819 | | 13730 | * | READ FULL TRACK |
| 000820 | 0256 F800 0277 | 13740 | LDR | \$R7,<ENDO |
| 000821 | 0258 CB80 0100 | 13750 | LAB | \$B4,<\$BOOT |
| 000822 | 025A CF80 0277 | 13760 | STB | \$B4,<ENDO |
| 000823 | 025C F200 0277 | 13770 | SUB | \$R7,<ENDO |
| 000824 | | 13780 | * | |
| 000825 | 0200 | 13790 | ADJUST | EQU Z'0200' |
| 000826 | 025E FBC7 0200 | 13800 | LAB | BASE,BASE,ADJUST |
| 000827 | | 13810 | * | WITH TRACK 0 READING |
| 000828 | | 13820 | BTLOOP | RESV 0 |
| 000829 | 0260 F270 0680 | 13830 | SUB | \$R7,=TRKSIZ/2 |
| 000830 | 0262 7A00 | 13840 | BGZ | \$R7,>+\$C |
| 000831 | | 13850 | * | MORE TO BE DONE |
| 000832 | 0263 F870 2408 | 13860 | LDR | \$R7,=COUPID |
| 000833 | 0265 D870 0400 | 13870 | LDR | \$R5,=BTLDCH |
| 000834 | 0267 E380 0000 | 13880 | LNJ | TRNS,<INITCP |
| 000835 | | 13890 | * | WEIRDO DELAY LOOP TO PREVENT COUPLER I/O COLLISION |
| 000836 | | 13900 | * | DONE BECAUSE HOST BOOT TIME LAG PREVENTS \$BOOT CLEAR SINCE |
| 000837 | | 13910 | * | SOFTWARE IS NOT ALL PRESENT AT INITCP'S FIRST CALL |
| 000838 | | 13920 | \$A | RESV 0 |
| 000839 | 0269 89C7 0006 | 13930 | CMZ | \$B7,COUPST |
| 000840 | 026B 09FE | 13940 | BNE | >-\$A |
| 000841 | | 13950 | * | IS COUPLER DONE JERKING OFF? |
| 000842 | 026C 8740 FE93 | 13960 | CL | \$BOOT |
| 000843 | 026E 8E70 8004 | 13970 | LEV | =\$LVEXE+RTCLEV |
| 000844 | | 13980 | * | MAKE LIKE HOST TCL & TELL INIT AL HERE |
| 000845 | | 13990 | IDLE | RESV 0 |
| 000846 | 0270 0000 | 14000 | HLT | |

| DBTL | SOFTWARE | -SAF | 1981/12/24 | 10:12:47 | HRF ASSEMBLER | DTSS L-6 HOST RESIDENT FACILITY PAGE 0026 |
|--------|----------|-----------|------------|----------|-----------------------------|---|
| 000847 | 0271 | 0FFF | | | 14010 B >IDLE | LOOP FOR IDLENESS |
| 000848 | | | | | 14020 * | |
| 000849 | | | | | 14030 \$C RESV 0 | |
| 000850 | 0272 | 4E01 | | | 14040 ADV TRACK,=ONE | NEXT TRACK |
| 000851 | 0273 | FBA7 | | | 14050 LAB BASE, BASE, RANGE | ADVANCE TO NEXT |
| 000852 | 0274 | E380 010B | | | 14060 LNJ TRNS,<READ | READ NEXT TRACK |
| 000853 | 0276 | 0FEA | | | 14070 B >BTLOOP | |
| 000854 | | | | | 14080 * | |
| 000855 | 0277 | 0000 | X | | 14090 ENDC DC <ENDING | LET LINKER TELL US FINAL ADDRESS |
| 000856 | 0278 | 0000 | | | 14100 ZILCH RESV 1,0 | ZERO BASING CELL |

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DBTL SOFTWARE -SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0027

000857 14110 /EJECT

000858 14120 XDEF: DATE,TIME

0279

027D

000859 0279 0000 14130 DATE RESV 4,Z'0000'

000860 027D 0000 14140 TIME RESV 4,Z'0000'

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SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0028

| | | | | | | |
|--------|------|-------|---------|------------------------------------|------------|--|
| 000861 | | 14150 | /EJECT | | | |
| 000862 | | 14160 | * | | | |
| 000863 | | 14170 | * | BOOTLOAD IDLE LEVEL | | |
| 000864 | | 14180 | * | | | |
| 000865 | FFFF | 14190 | \$ALL | EQU | Z'FFFF' | ISM1 CONTEXT ENTIRELY |
| 000866 | 0284 | 14200 | IDLEIV | EQU | \$+3 | LEVEL ROUTINE WHEN WE ARE IDLE |
| 000867 | 0281 | 14210 | | RESV | 3,Z'0000' | MMA,RFU,TSAP |
| 000868 | 0284 | 14220 | | DC | Z'0000' | DEV |
| 000869 | 0285 | 14230 | | DC | \$ALL | SAVE INDICATORS AND MODE 1 |
| 000870 | 0286 | 14240 | | DC | Z'0000' | |
| 000871 | 0287 | 14250 | | DC | <RESTOF | BOOTSTRAP CONTINUATION |
| 000872 | 0288 | 14260 | | DC | \$SRGP3 | PRIORITY LEVEL |
| 000873 | 0289 | 14270 | | RESV | 14,Z'0000' | ROOM FOR REGISTERS |
| 000874 | 0297 | 14280 | L63\$R1 | RESV | 2,Z'0000' | R1 = CHANNEL NUMBER |
| 000875 | | 14290 | * | | | |
| 000876 | | 14300 | * | START OF EXEC INITIALIZATION LEVEL | | |
| 000877 | | 14310 | * | | | |
| 000878 | 029C | 14320 | INITIV | EQU | \$+3 | LEVEL ROUTINE WHEN WE START EXEC UP |
| 000879 | 0299 | 14330 | | RESV | 3,Z'0000' | MMA,RFU,TSAP |
| 000880 | 029C | 14340 | | DC | Z'0000' | DEV |
| 000881 | 029D | 14350 | | DC | \$ALL | SAVE MODE REGISTER 1 |
| 000882 | 029E | 14360 | | DC | Z'0000' | |
| 000883 | 029F | 14370 | | DC | <INIT | DISKETTE COPY ROUTINE |
| 000884 | 02A0 | 14380 | | DC | \$SRGP3 | PRIORITY LEVEL |
| 000885 | 02A1 | 14390 | | RESV | 16,Z'0000' | ROOM FOR REGISTERS |
| 000886 | | 14400 | * | | | |
| 000887 | | 14410 | * | TRAP OVERFLOW INTERRUPT | | |
| 000888 | | 14420 | * | | | |
| 000889 | 02B4 | 14430 | TSOVIV | EQU | \$+3 | LEVEL ROUTINE WHEN WE ARE OVER TRAPPED |
| 000890 | 02B1 | 14440 | | RESV | 3,Z'0000' | MMA,RFU,TSAP |
| 000891 | 02B4 | 14450 | | DC | Z'0000' | DEV |
| 000892 | 02B5 | 14460 | | DC | \$ALL | SAVE MODE REGISTER 1 |
| 000893 | 02B6 | 14470 | | DC | Z'0000' | |
| 000894 | 02B7 | 14480 | | DC | <TSAOVR | TSA OVERFLOW HANDLER |
| 000895 | 02B8 | 14490 | | DC | \$SRGP3 | PRIORITY LEVEL |
| 000896 | 02B9 | 14500 | | RESV | 16,Z'0000' | ROOM FOR REGISTERS |
| 000897 | | 14510 | * | | | |
| 000898 | | 14520 | * | POWER FAIL OR CRASH INTERRUPT | | |
| 000899 | | 14530 | * | | | |
| 000900 | 02CC | 14540 | ERRIV | EQU | \$+3 | LEVEL ROUTINE WHEN WE ARE IDLE |
| 000901 | 02C9 | 14550 | | RESV | 3,Z'0000' | MMA,RFU,TSAP |
| 000902 | 02CC | 14560 | | DC | Z'0000' | DEV |
| 000903 | 02CD | 14570 | | DC | \$ALL | SAVE MODE REGISTER 1 |
| 000904 | 02CE | 14580 | | DC | Z'0000' | |
| 000905 | 02CF | 14590 | | DC | Z'0000' | PREG PLUGGED WHEN WE LEFT LEVEL0 |
| 000906 | 02D0 | 14600 | | DC | \$SRGP3 | PRIORITY LEVEL |
| 000907 | 02D1 | 14610 | | RESV | 16,Z'0000' | ROOM FOR REGISTERS |

DBTL

SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0029

| | | | | | |
|--------|------|-----------|-------|----------------------------|---------------------------|
| 000908 | | | 14620 | /EJECT | |
| 000909 | | | 14630 | * | |
| 000910 | | | 14640 | * TRAP HANDLING MECHANISMS | |
| 000911 | | | 14650 | * | |
| 000912 | | | 14660 | * | |
| 000913 | | | 14670 | * TRAP SAVE AREAS | |
| 000914 | | | 14680 | * | |
| 000915 | 02E1 | 02EA | 14690 | TSABKO DC <TSABK1 | LINK TO SECOND |
| 000916 | 02E2 | 0000 | 14700 | RESV \$TSALN-1,Z'0000' | ROOM FOR REMAINDER OF TSA |
| 000917 | | | 14710 | * | |
| 000918 | 02EA | 02F3 | 14720 | TSABK1 DC <TSABK2 | LINK TO THIRD |
| 000919 | 02EB | 0000 | 14730 | RESV \$TSALN-1,Z'0000' | ROOM FOR REMAINDER OF TSA |
| 000920 | | | 14740 | * | |
| 000921 | 02F3 | 0000 | 14750 | TSABK2 DC Z'0000' | ONLY HAVE 3 ACTIVE TSA'S |
| 000922 | 02F4 | 0000 | 14760 | RESV \$TSALN-1,Z'0000' | ROOM FOR REMAINDER OF TSA |
| 000923 | | | 14770 | * | |
| 000924 | | | 14780 | * TRAP HANDLERS | |
| 000925 | | | 14790 | * | |
| 000926 | 02FC | 0F80 035D | 14800 | HLTRPX B <HLTRAP | ALLOWS SHORT ADDRESS |
| 000927 | | | 14810 | * | |
| 000928 | 02FE | 3C2E | 14820 | HLTP46 LDV \$R3,Z'2E' | LOAD TRAP NUMBER |
| 000929 | 02FF | 0FFD | 14830 | B >HLTRPX | CRASH |
| 000930 | 0300 | 3C2D | 14840 | HLTP45 LDV \$R3,Z'2D' | LOAD TRAP NUMBER |
| 000931 | 0301 | 0FFB | 14850 | B >HLTRPX | CRASH |
| 000932 | 0302 | 3C2C | 14860 | HLTP44 LDV \$R3,Z'2C' | LOAD TRAP NUMBER |
| 000933 | 0303 | 0FF9 | 14870 | B >HLTRPX | CRASH |
| 000934 | 0304 | 3C2B | 14880 | HLTP43 LDV \$R3,Z'2B' | LOAD TRAP NUMBER |
| 000935 | 0305 | 0FF7 | 14890 | B >HLTRPX | CRASH |
| 000936 | 0306 | 3C2A | 14900 | HLTP42 LDV \$R3,Z'2A' | LOAD TRAP NUMBER |
| 000937 | 0307 | 0FF5 | 14910 | B >HLTRPX | CRASH |
| 000938 | 0308 | 3C29 | 14920 | HLTP41 LDV \$R3,Z'29' | LOAD TRAP NUMBER |
| 000939 | 0309 | 0FF3 | 14930 | B >HLTRPX | CRASH |
| 000940 | 030A | 3C28 | 14940 | HLTP40 LDV \$R3,Z'28' | LOAD TRAP NUMBER |
| 000941 | 030B | 0FF1 | 14950 | B >HLTRPX | CRASH |
| 000942 | 030C | 3C27 | 14960 | HLTP39 LDV \$R3,Z'27' | LOAD TRAP NUMBER |
| 000943 | 030D | 0FEF | 14970 | B >HLTRPX | CRASH |
| 000944 | 030E | 3C26 | 14980 | HLTP38 LDV \$R3,Z'26' | LOAD TRAP NUMBER |
| 000945 | 030F | 0FED | 14990 | B >HLTRPX | CRASH |
| 000946 | 0310 | 3C25 | 15000 | HLTP37 LDV \$R3,Z'25' | LOAD TRAP NUMBER |
| 000947 | 0311 | 0FE8 | 15010 | B >HLTRPX | CRASH |
| 000948 | 0312 | 3C24 | 15020 | HLTP36 LDV \$R3,Z'24' | LOAD TRAP NUMBER |
| 000949 | 0313 | 0FE9 | 15030 | B >HLTRPX | CRASH |
| 000950 | 0314 | 3C23 | 15040 | HLTP35 LDV \$R3,Z'23' | LOAD TRAP NUMBER |
| 000951 | 0315 | 0FE7 | 15050 | B >HLTRPX | CRASH |
| 000952 | 0316 | 3C22 | 15060 | HLTP34 LDV \$R3,Z'22' | LOAD TRAP NUMBER |
| 000953 | 0317 | 0FE5 | 15070 | B >HLTRPX | CRASH |
| 000954 | 0318 | 3C21 | 15080 | HLTP33 LDV \$R3,Z'21' | LOAD TRAP NUMBER |
| 000955 | 0319 | 0FE3 | 15090 | B >HLTRPX | CRASH |
| 000956 | 031A | 3C20 | 15100 | HLTP32 LDV \$R3,Z'20' | LOAD TRAP NUMBER |
| 000957 | 031B | 0FE1 | 15110 | B >HLTRPX | CRASH |
| 000958 | 031C | 3C1F | 15120 | HLTP31 LDV \$R3,Z'1F' | LOAD TRAP NUMBER |
| 000959 | 031D | 0FDF | 15130 | B >HLTRPX | CRASH |

DBTL SOFTWARE

- SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0030

| | | | | | | | |
|--------|------|------|-------|--------|-----|------------|------------------|
| 000960 | 031E | 3C1E | 15140 | HLTP30 | LDV | \$R3,Z'1E' | LOAD TRAP NUMBER |
| 000961 | 031F | 0FDD | 15150 | | B | >HLTRPX | CRASH |
| 000962 | 0320 | 3C1D | 15160 | HLTP29 | LDV | \$R3,Z'1D' | LOAD TRAP NUMBER |
| 000963 | 0321 | 0FDB | 15170 | | B | >HLTRPX | CRASH |
| 000964 | 0322 | 3C1C | 15180 | HLTP28 | LDV | \$R3,Z'1C' | LOAD TRAP NUMBER |
| 000965 | 0323 | 0FD9 | 15190 | | B | >HLTRPX | CRASH |
| 000966 | 0324 | 3C1B | 15200 | HLTP27 | LDV | \$R3,Z'1B' | LOAD TRAP NUMBER |
| 000967 | 0325 | 0FD7 | 15210 | | B | >HLTRPX | CRASH |
| 000968 | 0326 | 3C1A | 15220 | HLTP26 | LDV | \$R3,Z'1A' | LOAD TRAP NUMBER |
| 000969 | 0327 | 0FD5 | 15230 | | B | >HLTRPX | CRASH |
| 000970 | 0328 | 3C19 | 15240 | HLTP25 | LDV | \$R3,Z'19' | LOAD TRAP NUMBER |
| 000971 | 0329 | 0FD3 | 15250 | | B | >HLTRPX | CRASH |
| 000972 | 032A | 3C18 | 15260 | HLTP24 | LDV | \$R3,Z'18' | LOAD TRAP NUMBER |
| 000973 | 032B | 0FB2 | 15270 | | B | >HLTRAP | CRASH |
| 000974 | 032C | 3C17 | 15280 | HLTP23 | LDV | \$R3,Z'17' | LOAD TRAP NUMBER |
| 000975 | 032D | 0FB0 | 15290 | | B | >HLTRAP | CRASH |
| 000976 | 032E | 3C16 | 15300 | HLTP22 | LDV | \$R3,Z'16' | LOAD TRAP NUMBER |
| 000977 | 032F | 0FAE | 15310 | | B | >HLTRAP | CRASH |
| 000978 | 0330 | 3C15 | 15320 | HLTP21 | LDV | \$R3,Z'15' | LOAD TRAP NUMBER |
| 000979 | 0331 | 0FAC | 15330 | | B | >HLTRAP | CRASH |
| 000980 | 0332 | 3C14 | 15340 | HLTP20 | LDV | \$R3,Z'14' | LOAD TRAP NUMBER |
| 000981 | 0333 | 0FAA | 15350 | | B | >HLTRAP | CRASH |
| 000982 | 0334 | 3C13 | 15360 | HLTP19 | LDV | \$R3,Z'13' | LOAD TRAP NUMBER |
| 000983 | 0335 | 0FA8 | 15370 | | B | >HLTRAP | CRASH |
| 000984 | 0336 | 3C12 | 15380 | HLTP18 | LDV | \$R3,Z'12' | LOAD TRAP NUMBER |
| 000985 | 0337 | 0FA6 | 15390 | | B | >HLTRAP | CRASH |
| 000986 | 0338 | 3C11 | 15400 | HLTP17 | LDV | \$R3,Z'11' | LOAD TRAP NUMBER |
| 000987 | 0339 | 0FA4 | 15410 | | B | >HLTRAP | CRASH |
| 000988 | 033A | 3C10 | 15420 | HLTP16 | LDV | \$R3,Z'10' | LOAD TRAP NUMBER |
| 000989 | 033B | 0FA2 | 15430 | | B | >HLTRAP | CRASH |
| 000990 | 033C | 3C0F | 15440 | HLTP15 | LDV | \$R3,Z'0F' | LOAD TRAP NUMBER |
| 000991 | 033D | 0FA0 | 15450 | | B | >HLTRAP | CRASH |
| 000992 | 033E | 3C0E | 15460 | HLTP14 | LDV | \$R3,Z'0E' | LOAD TRAP NUMBER |
| 000993 | 033F | 0F9E | 15470 | | B | >HLTRAP | CRASH |
| 000994 | 0340 | 3C0D | 15480 | HLTP13 | LDV | \$R3,Z'0D' | LOAD TRAP NUMBER |
| 000995 | 0341 | 0F9C | 15490 | | B | >HLTRAP | CRASH |
| 000996 | 0342 | 3C0C | 15500 | HLTP12 | LDV | \$R3,Z'0C' | LOAD TRAP NUMBER |
| 000997 | 0343 | 0F9A | 15510 | | B | >HLTRAP | CRASH |
| 000998 | 0344 | 3C0B | 15520 | HLTP11 | LDV | \$R3,Z'0B' | LOAD TRAP NUMBER |
| 000999 | 0345 | 0F98 | 15530 | | B | >HLTRAP | CRASH |
| 001000 | 0346 | 3C0A | 15540 | HLTP10 | LDV | \$R3,Z'0A' | LOAD TRAP NUMBER |
| 001001 | 0347 | 0F96 | 15550 | | B | >HLTRAP | CRASH |
| 001002 | 0348 | 3C09 | 15560 | HLTP09 | LDV | \$R3,Z'09' | LOAD TRAP NUMBER |
| 001003 | 0349 | 0F94 | 15570 | | B | >HLTRAP | CRASH |
| 001004 | 034A | 3C08 | 15580 | HLTP08 | LDV | \$R3,Z'08' | LOAD TRAP NUMBER |
| 001005 | 034B | 0F92 | 15590 | | B | >HLTRAP | CRASH |
| 001006 | 034C | 3C07 | 15600 | HLTP07 | LDV | \$R3,Z'07' | LOAD TRAP NUMBER |
| 001007 | 034D | 0F90 | 15610 | | B | >HLTRAP | CRASH |
| 001008 | 034E | 3C06 | 15620 | HLTP06 | LDV | \$R3,Z'06' | LOAD TRAP NUMBER |
| 001009 | 034F | 0F8E | 15630 | | B | >HLTRAP | CRASH |
| 001010 | 0350 | 3C05 | 15640 | HLTP05 | LDV | \$R3,Z'05' | LOAD TRAP NUMBER |
| 001011 | 0351 | 0F8C | 15650 | | B | >HLTRAP | CRASH |

| DBTL | SOFTWARE | -SAF | 1981/12/24 10:12:47 | HRF ASSEMBLER | DTSS L-6 HOST RESIDENT FACILITY PAGE 0031 |
|--------|----------------|------|---------------------|-----------------------|---|
| 001012 | 0352 3C04 | | 15660 | HLTP04 LDV \$R3,Z'04' | LOAD TRAP NUMBER |
| 001013 | 0353 0F8A | | 15670 | B >HLTRAP | CRASH |
| 001014 | 0354 3C03 | | 15680 | HLTP03 LDV \$R3,Z'03' | LOAD TRAP NUMBER |
| 001015 | 0355 0F88 | | 15690 | B >HLTRAP | CRASH |
| 001016 | 0356 3C02 | | 15700 | HLTP02 LDV \$R3,Z'02' | LOAD TRAP NUMBER |
| 001017 | 0357 9070 0080 | | 15710 | MTM \$M1,=\$M1JTS | TEST JUMP BIT FIRST |
| 001018 | 0359 9070 8000 | | 15720 | MTM \$M1,=\$M1JRS | THEN RESET IT |
| 001019 | 035B 0F82 | | 15730 | B >HLTRAP | CRASH |
| 001020 | 035C 3C01 | | 15740 | HLTP01 LDV \$R3,Z'01' | LOAD TRAP NUMBER |
| 001021 | | | 15750 | * | |
| 001022 | 035D 8388 035F | | 15760 | HLTRAP JMP * <TRAPER | CALL TRAP SUBROUTINE |
| 001023 | | | 15770 | * | |
| 001024 | 035F 0360 | | 15780 | TRAPER DC <TRPDIE | DIE IF WE WERENT EXPECTING FAULT |
| 001025 | | | 15790 | * | |
| 001026 | 0360 8C00 013A | | 15800 | TRPDIE STS <SError | SAVE LEVEL WHERE CRASH OCCURRED |
| 001027 | 0362 8E70 0000 | | 15810 | LEV =\$LVDIE | CRASH |
| 001028 | | | 15820 | \$B RESV 0 | |
| 001029 | 0364 0000 | | 15830 | HLT | BETTER SAFE THAN SORRY |
| 001030 | 0365 0FFF | T | 15840 | B >-\$B | |

DBTL

SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0032

| | | | |
|--------|------|------|---|
| 001031 | | | 15850 /EJECT |
| 001032 | | | 15860 * |
| 001033 | | | 15870 *MODULE POINTERS |
| 001034 | | | 15880 * |
| 001035 | | | 15890 XLOC E\$CPLR,E\$INIT,E\$DBG1,E\$DBG2 |
| 001036 | | | 15900 XLOC E\$CLOK,E\$MMRY,E\$CONS,E\$SYSC |
| 001037 | | | 15910 XLOC E\$FCP,E\$MLCP,E\$TASY,E\$RASY |
| 001038 | | | 15920 XLOC E\$ASML,E\$DEVC,E\$ATTC,E\$MSGD |
| 001039 | | | 15930 XLOC E\$MBIN,E\$DASY,E\$SYNC,E\$SYNP |
| 001040 | | | 15940 XLOC E\$DVIN,E\$TYMN,E\$RJEN,E\$MTRS |
| 001041 | | | 15950 XLOC E\$NETX,E\$NDPT |
| 001042 | | | 15960 * |
| 001043 | 0366 | 0387 | 15970 MODULE DC <E\$DBTL OURSELVES |
| 001044 | 0367 | 0000 | 15980 DC <E\$CPLR COUPLER |
| 001045 | 0368 | 0000 | 15990 DC <E\$CONS MULTIPONT CONSOLE |
| 001046 | 0369 | 0000 | 16000 DC <E\$SYSC SYSTEMS CONSOLE INTERFACE |
| 001047 | 036A | 0000 | 16010 DC <E\$DBG1 DEBUGGER PART 1 |
| 001048 | 036B | 0000 | 16020 DC <E\$DBG2 DEBUGGER PART 2 |
| 001049 | 036C | 0000 | 16030 DC <E\$CLOK CLOCK MANIPULATORS |
| 001050 | 036D | 0000 | 16040 DC <E\$MMRY MEMORY MANAGEMENT |
| 001051 | 036E | 0000 | 16050 DC <E\$INIT INITIALIZATION |
| 001052 | 036F | 0000 | 16060 DC <E\$FCP SOFT SIDE OF COUPLER |
| 001053 | 0370 | 0000 | 16070 DC <E\$MLCP MLCP IO ROUTINES |
| 001054 | 0371 | 0000 | 16080 DC <E\$TASY ASYNCHRONOUS PROTOCOL OUTPUT (MLCP) |
| 001055 | 0372 | 0000 | 16090 DC <E\$RASY ASYNCHRONOUS PROTOCOL INPUT (MLCP) |
| 001056 | 0373 | 0000 | 16100 DC <E\$ASML ASYNCHRONOUS PROTOCOL DRIVER (L6) |
| 001057 | 0374 | 0000 | 16110 DC <E\$DEVC DEVICE INTERFACE |
| 001058 | 0375 | 0000 | 16120 DC <E\$DVIN DEVICE INPUT |
| 001059 | 0376 | 0000 | 16130 DC <E\$MSGD MESSAGES ROUTINES |
| 001060 | 0377 | 0000 | 16140 DC <E\$ATTC MAINFRAME ATTACHMENTS |
| 001061 | 0378 | 0000 | 16150 DC <E\$DASY DELAYS FOR ASYNCS |
| 001062 | 0379 | 0000 | 16160 DC <E\$MBIN MOTHER BOARD INIT ROUTINES |
| 001063 | 037A | 0000 | 16170 DC <E\$SYNC SYNCHRONOUS PROTOCOL DRIVER (MLCP) |
| 001064 | 037B | 0000 | 16180 DC <E\$SYNP SYNCHRONOUS PROTOCOL DRIVER (L6) |
| 001065 | 037C | 0000 | 16190 DC <E\$TYMN TYMNET NETWORK CONTROL |
| 001066 | 037D | 0000 | 16200 DC <E\$NETX PACKET NETWORK CONTROL |
| 001067 | 037E | 0000 | 16210 DC <E\$RJEN REMOTE JOB ENTRY TERMINAL SUPPORT |
| 001068 | 037F | 0000 | 16220 DC <E\$MTRS METERS, CONFIGURATIONS |
| 001069 | 0380 | 0000 | 16230 DC <E\$NDPT NODE POINT ROUTING |
| 001070 | 0381 | 0000 | 16240 RESV 3,Z'0000' END OF TABLE AND 2 SPARES |

DBTL SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0033

001071 99990 /EJECT
001072 99991 *
001073 99992 *FORCE ALL MODULES TO BE 0MOD8 IN LENGTH
001074 99993 *
001075 0387 99994 E\$ENDR EQU \$-\$\$DBTL+3
001076 0384 0000 99995 RESV ((E\$ENDR+7)/8)*8-E\$ENDR,Z'0000'

001077 99996 *
001078 0385 4442 99997 DC 'DBTL' MNEUMONIC NAME OF MODULE
0386 544C
001079 0387 0000 99998 E\$DBTL DC <\$\$DBTL START OF ROUTINE
001080 0388 99999 END DBTL SOFTWARE

0001 ERR COUNT
02340 WORD SYMBOL TABLE

DBTL SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0035

| | |
|-----------|-------------------------|
| N \$ASCN | 92 |
| N \$ASCO | 93 |
| N \$ASCP | 94 |
| N \$ASCPL | 115 |
| N \$ASCQ | 95 |
| N \$ASCQM | 125 |
| N \$ASCR | 96 |
| \$ASCRO | 130 131 |
| N \$ASCRP | 113 |
| N \$ASCRS | 144 |
| N \$ASCS | 97 |
| N \$ASCSC | 121 |
| N \$ASCSP | 109 |
| N \$ASCT | 98 |
| N \$ASCU | 99 |
| N \$ASCUA | 128 |
| N \$ASCV | 100 |
| N \$ASCVT | 140 |
| N \$ASCW | 101 |
| \$ASCX | 102 136 |
| N \$ASCY | 103 |
| \$ASCZ | 104 137 |
| M \$B | 671 |
| M \$B | 708 |
| M \$B | 1028 679 710 1030 |
| \$B2 | ***** 627 669 816 |
| \$B3 | ***** 660 670 |
| \$B4 | ***** 821 822 |
| \$B6 | ***** 489 |
| \$B7 | ***** 490 839 |
| \$BOOT | 626 463 714 718 821 842 |
| \$C | 849 830 |
| N \$CFGAI | 23 |
| N \$CFGAO | 24 |
| N \$CFGBI | 25 |
| N \$CFGBO | 26 |
| N \$CRLF | 62 |
| N \$ICTLI | 14 |
| N \$ICTLO | 15 |
| N \$IDINP | 30 |
| N \$INMBA | 19 |
| N \$INMMA | 20 |
| N \$INRNG | 21 |
| \$INTBT | 547 462 |
| \$IOCHO | 8 33 |
| \$IOCH1 | 9 34 |
| N \$IOCH2 | 10 |
| \$IOCH3 | 11 409 |
| \$IOLD | 32 33 34 |
| N \$IOLDI | 33 |
| N \$IOLDO | 34 |
| N \$ISTS1 | 28 |

DBTL SOFTWARE -SAF 1981/12/24 10:12:47 HRF ASSEMBLER DTSS L-6 HOST RESIDENT FACILITY PAGE 0036

| | |
|-----------|------|
| N \$ISTS2 | 29 |
| N \$IVB1 | 233 |
| N \$IVDEV | 228 |
| \$IVECT | 602 |
| N \$IVI | 234 |
| N \$IVLEV | 226 |
| N \$IVM1 | 236 |
| N \$IVMSK | 229 |
| N \$IVP | 230 |
| N \$IVR1 | 235 |
| N \$IVREG | 232 |
| N \$IVS | 231 |
| N \$IVT | 237 |
| N \$IVTSA | 227 |
| \$LVDIE | 267 |
| N \$LVDIS | 684 |
| N \$LVDSX | 707 |
| \$LVENT | 1027 |
| \$LVEXE | 265 |
| \$LVEXI | 266 |
| N \$LVSCH | 264 |
| \$M1 | 263 |
| N \$M1JRS | 261 |
| N \$M1JST | 262 |
| \$M1JTS | 262 |
| \$MKB1 | 1017 |
| N \$MKB13 | 206 |
| N \$MKB2 | 219 |
| \$MKB3 | 205 |
| \$MKB4 | 204 |
| N \$MKB47 | 221 |
| N \$MKB5 | 203 |
| N \$MKB6 | 220 |
| N \$MKB7 | 202 |
| \$MKI | 201 |
| N \$MKM1 | 200 |
| \$MKR1 | 219 |
| N \$MKR13 | 207 |
| N \$MKR2 | 217 |
| \$MKR3 | 214 |
| \$MKR4 | 213 |
| N \$MKR47 | 221 |
| N \$MKR5 | 212 |
| N \$MKR6 | 211 |
| N \$MKR7 | 218 |
| N \$MKSTD | 221 |
| N \$OBCTL | 209 |
| N \$OCCTL | 208 |
| N \$OTCTL | 22 |
| \$R1 | 16 |
| \$R2 | 13 |
| \$R3 | 486 |
| | 683 |
| | 485 |
| | 661 |
| | 664 |
| | 669 |
| | 928 |
| | 930 |
| | 932 |
| | 934 |
| | 936 |
| | 938 |
| | 940 |
| | 942 |
| | 944 |
| | 946 |
| | 948 |
| | 950 |
| | 952 |
| | 954 |
| | 956 |
| | 958 |

| DBTL | SOFTWARE | -SAF | 1981/12/24 | 10:12:47 | HRF ASSEMBLER | DTSS L-6 HOST RESIDENT FACILITY PAGE 0037 |
|-----------|---------------------|---|---|----------|---------------|---|
| | | 960 962 964 966 968 970 972 974 976 978 980 982 984 986 988 990 992 994 996 | 998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1020 | | | |
| \$R4 | ***** | 487 | | | | |
| \$R5 | ***** | 670 673 680 681 833 | | | | |
| \$R6 | ***** | 669 672 673 675 676 | | | | |
| \$R7 | ***** | 805 806 820 823 829 830 832 | | | | |
| N \$R0R0 | 131 | | | | | |
| \$RTCLK | 544 461 | | | | | |
| N \$S10 | 149 | | | | | |
| N \$S120 | 153 | | | | | |
| N \$S15 | 150 | | | | | |
| N \$S180 | 154 | | | | | |
| N \$S1920 | 158 | | | | | |
| N \$S240 | 155 | | | | | |
| N \$S30 | 151 | | | | | |
| N \$S480 | 156 | | | | | |
| N \$S60 | 152 | | | | | |
| N \$S960 | 157 | | | | | |
| N \$SMAX | 160 | | | | | |
| \$SRGP3 | 256 872 884 895 906 | | | | | |
| \$TSAA | 247 249 251 | | | | | |
| N \$TSAB3 | 250 | | | | | |
| N \$TSACM | 245 | | | | | |
| N \$TSAI | 243 | | | | | |
| N \$TSAL | 242 | | | | | |
| \$TSALN | 253 916 919 922 | | | | | |
| \$TSALS | 542 460 | | | | | |
| \$TSAP | 248 249 | | | | | |
| N \$TSAPX | 249 | | | | | |
| N \$TSAR3 | 244 | | | | | |
| N \$TSATM | 251 | | | | | |
| N \$TSAWD | 252 | | | | | |
| N \$TSAZ | 246 | | | | | |
| N \$TSKRI | 17 | | | | | |
| N \$TSKRO | 18 | | | | | |
| \$TV01 | 597 464 | | | | | |
| N \$TV02 | 596 | | | | | |
| N \$TV03 | 595 | | | | | |
| N \$TV04 | 594 | | | | | |
| N \$TV05 | 593 | | | | | |
| \$TV06 | 592 465 | | | | | |
| N \$TV07 | 591 | | | | | |
| N \$TV08 | 590 | | | | | |
| N \$TV09 | 589 | | | | | |
| N \$TV10 | 588 | | | | | |
| \$TV11 | 587 466 | | | | | |
| N \$TV12 | 586 | | | | | |
| N \$TV13 | 585 | | | | | |
| N \$TV14 | 584 | | | | | |
| N \$TV15 | 583 | | | | | |
| \$TV16 | 582 467 | | | | | |
| N \$TV17 | 581 | | | | | |

DBTL SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0038

| | |
|----------|-------------------------|
| N \$TV18 | 580 |
| N \$TV19 | 579 |
| N \$TV20 | 578 |
| \$TV21 | 577 468 |
| N \$TV22 | 576 |
| N \$TV23 | 575 |
| N \$TV24 | 574 |
| N \$TV25 | 573 |
| \$TV26 | 572 469 |
| N \$TV27 | 571 |
| N \$TV28 | 570 |
| N \$TV29 | 569 |
| N \$TV30 | 568 |
| \$TV31 | 567 470 |
| N \$TV32 | 566 |
| N \$TV33 | 565 |
| N \$TV34 | 564 |
| N \$TV35 | 563 |
| \$TV36 | 562 471 |
| N \$TV37 | 561 |
| N \$TV38 | 560 |
| N \$TV39 | 559 |
| N \$TV40 | 558 |
| \$TV41 | 557 472 |
| N \$TV42 | 556 |
| N \$TV43 | 555 |
| N \$TV44 | 554 |
| N \$TV45 | 553 |
| \$TV46 | 552 473 |
| \$WDTMR | 545 461 |
| ADJUST | 825 826 |
| N ASCMOD | 429 |
| N ASYID | 341 |
| BADSTS | 652 680 |
| BASE | 490 630 657 808 826 851 |
| N BCDMOD | 430 |
| N BINMOD | 431 |
| N BISID | 342 |
| N BKRTA | 329 |
| BTLDCH | 39 833 |
| BTLOOP | 828 853 |
| N BUFBSY | 387 |
| N CFGRD | 445 |
| CHANL | 486 672 809 |
| N CIDLE | 441 |
| CIVDEV | 375 376 |
| CMDLIS | 686 627 816 |
| CNSLEV | 289 290 |
| CONT | 803 632 804 |
| COUPID | 339 832 |
| COUPSL | 414 415 |
| COUPST | 350 352 839 |

DBTL SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0039

| | | |
|----------|------|---------|
| COUPTL | 415 | 416 |
| N COUPWL | 416 | |
| N CPBFLN | 401 | |
| CPFLGS | 349 | 350 |
| N CPLRBL | 381 | |
| CPLRLV | 286 | 414 |
| N CPUOCH | 38 | |
| CURBUF | 301 | 302 |
| CURLEN | 302 | 303 |
| DATE | 859 | 858 |
| DATEND | 701 | 716 717 |
| DATLEN | 702 | 664 |
| DATLIS | 692 | 660 702 |
| DATLOC | 693 | 657 |
| N DBGLEV | 292 | |
| N DCWLEN | 425 | |
| DCWLST | 379 | 381 |
| DEADCT | 354 | 356 |
| N DEVLEV | 293 | |
| N DISKID | 340 | |
| N DW66T6 | 422 | |
| N DW6T66 | 421 | |
| N DWCNFG | 423 | |
| N DWDSCI | 420 | |
| E\$ASML | 1038 | 1056 |
| E\$ATTC | 1038 | 1060 |
| E\$CLOK | 1036 | 1049 |
| E\$CONS | 1036 | 1045 |
| E\$CPLR | 1035 | 1044 |
| E\$DASY | 1039 | 1061 |
| E\$DBG1 | 1035 | 1047 |
| E\$DBG2 | 1035 | 1048 |
| E\$DBTL | 1079 | 2 1043 |
| E\$DEVC | 1038 | 1057 |
| E\$DVIN | 1040 | 1058 |
| E\$ENDR | 1075 | 1076 |
| E\$INIT | 1035 | 1051 |
| E\$MBIN | 1039 | 1062 |
| E\$MLCP | 1037 | 1053 |
| E\$MMRY | 1036 | 1050 |
| E\$MSGD | 1038 | 1059 |
| E\$MTRS | 1040 | 1068 |
| E\$NDPT | 1041 | 1069 |
| E\$NETX | 1041 | 1066 |
| E\$RASY | 1037 | 1055 |
| E\$RJEN | 1040 | 1067 |
| E\$SFCP | 1037 | 1052 |
| E\$SYNC | 1039 | 1063 |
| E\$SYNP | 1039 | 1064 |
| E\$SYSC | 1036 | 1046 |
| E\$TASY | 1037 | 1054 |
| E\$TYMN | 1040 | 1065 |

DBTL SOFTWARE -SAF 1981/12/24 10:12:47 HRF ASSEMBLER DTSS L-6 HOST RESIDENT FACILITY PAGE 0040

| | | | |
|----------|------|-----|-----|
| ENDING | 529 | 855 | |
| ENDO | 855 | 820 | 822 |
| ERRIV | 900 | 603 | 786 |
| N ERRLEV | 278 | | |
| N ESCDTA | 328 | | |
| N ESCQTL | 327 | | |
| N FPTR | 45 | | |
| FRSTCK | 316 | 317 | |
| H66DTA | 370 | 371 | |
| N H66SPC | 407 | | |
| N H66TRM | 406 | | |
| HALT | 653 | 683 | |
| N HANGLV | 281 | | |
| N HEADRS | 479 | | |
| HLTP01 | 1020 | 597 | 780 |
| HLTP02 | 1016 | 596 | 779 |
| HLTP03 | 1014 | 595 | 778 |
| HLTP04 | 1012 | 594 | 777 |
| HLTP05 | 1010 | 593 | 776 |
| HLTP06 | 1008 | 592 | 775 |
| HLTP07 | 1006 | 591 | 774 |
| HLTP08 | 1004 | 590 | 773 |
| HLTP09 | 1002 | 589 | 772 |
| HLTP10 | 1000 | 588 | 771 |
| HLTP11 | 998 | 587 | 770 |
| HLTP12 | 996 | 586 | 769 |
| HLTP13 | 994 | 585 | 768 |
| HLTP14 | 992 | 584 | 767 |
| HLTP15 | 990 | 583 | 766 |
| HLTP16 | 988 | 582 | 765 |
| HLTP17 | 986 | 581 | 764 |
| HLTP18 | 984 | 580 | 763 |
| HLTP19 | 982 | 579 | 762 |
| HLTP20 | 980 | 578 | 761 |
| HLTP21 | 978 | 577 | 760 |
| HLTP22 | 976 | 576 | 759 |
| HLTP23 | 974 | 575 | 758 |
| HLTP24 | 972 | 574 | 757 |
| HLTP25 | 970 | 573 | 756 |
| HLTP26 | 968 | 572 | 755 |
| HLTP27 | 966 | 571 | 754 |
| HLTP28 | 964 | 570 | 753 |
| HLTP29 | 962 | 569 | 752 |
| HLTP30 | 960 | 568 | 751 |
| HLTP31 | 958 | 567 | 750 |
| HLTP32 | 956 | 566 | 749 |
| HLTP33 | 954 | 565 | 748 |
| HLTP34 | 952 | 564 | 747 |
| HLTP35 | 950 | 563 | 746 |
| HLTP36 | 948 | 562 | 745 |
| HLTP37 | 946 | 561 | 744 |
| HLTP38 | 944 | 560 | 743 |

| DBTL | SOFTWARE | -SAF 1981/12/24 10:12:47 HRF ASSEMBLER | | | | | | DTSS L-6 HOST RESIDENT FACILITY PAGE 0042 |
|------|----------|--|------|------|------|-----|-----|---|
| | | 376 | 377 | | | | | |
| N | LSTSTS | 309 | | | | | | |
| N | LTLONG | | | | | | | |
| | MASK | 654 | 675 | | | | | |
| | MBXLOC | 371 | 372 | | | | | |
| | MBXPKG | 372 | 373 | | | | | |
| N | MBXRD | 442 | | | | | | |
| N | MBXWDS | 399 | | | | | | |
| N | MCPLEV | 284 | | | | | | |
| N | MFLAGS | 304 | | | | | | |
| | MODULE | 1043 | 458 | | | | | |
| | MORE | 715 | 717 | | | | | |
| | MORE2 | 804 | 630 | | | | | |
| N | MSBMOD | 434 | | | | | | |
| N | MSGLEV | 291 | | | | | | |
| N | NETLEV | 287 | | | | | | |
| | NSBERR | 303 | 304 | | | | | |
| | O\$ADDR | 493 | 687 | | | | | |
| N | O\$CNTL | 499 | | | | | | |
| | OSCWA | 495 | 688 | | | | | |
| N | O\$CWB | 496 | | | | | | |
| N | O\$INTC | 497 | | | | | | |
| | O\$RANG | 494 | 687 | | | | | |
| | O\$TASK | 498 | 689 | 690 | | | | |
| N | ODDRWS\$ | 514 | | | | | | |
| N | ODRW\$ | 515 | | | | | | |
| N | OFRMT\$ | 512 | | | | | | |
| | OMSGFB | 356 | 357 | | | | | |
| | OMSGFP | 357 | 358 | | | | | |
| | OMSGLB | 358 | 359 | | | | | |
| | OMSGLP | 359 | 360 | | | | | |
| | ONE | 481 | 804 | 805 | 850 | | | |
| N | ONESEC | 295 | | | | | | |
| N | ORCAL\$ | 510 | | | | | | |
| | ORW\$ | 513 | 699 | | | | | |
| | OSEEK\$ | 511 | 697 | | | | | |
| N | OWRAP\$ | 516 | | | | | | |
| | PSBCLK | 352 | 353 | | | | | |
| | PSBCNT | 353 | 354 | | | | | |
| | RANGE | 485 | 629 | 656 | 807 | 818 | 851 | |
| | READ | 640 | 631 | 810 | 852 | | | |
| | RESTOF | 814 | 871 | | | | | |
| N | RLDSET | 390 | | | | | | |
| | RSTART | 802 | 812 | | | | | |
| | RTCLEV | 282 | 843 | | | | | |
| N | RTCLK | 727 | | | | | | |
| N | RWORD | 52 | | | | | | |
| | SSDBTL | 3 | 1075 | 1079 | | | | |
| N | SBSCLV | 288 | | | | | | |
| | SCNDCK | 317 | 318 | | | | | |
| | SECNUM | 696 | 806 | 817 | | | | |
| | SECSIZ | 524 | 696 | 807 | | | | |
| | SERROR | 712 | 457 | 706 | 1026 | | | |

DBTL

SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0043

| | | |
|---|---------|-------------------------------------|
| N | SLRDCK | 388 |
| N | SM\$000 | 165 |
| N | SM\$DLO | 176 |
| N | SM\$DL1 | 177 |
| N | SM\$DL2 | 178 |
| N | SM\$DL3 | 179 |
| N | SM\$DL4 | 180 |
| N | SM\$DL5 | 181 |
| N | SM\$DL6 | 182 |
| N | SM\$DL7 | 183 |
| | SM\$DLY | 175 176 177 178 179 180 181 182 183 |
| N | SM\$ECH | 167 |
| N | SM\$EO0 | 170 |
| N | SM\$FRD | 171 |
| N | SM\$IDY | 173 |
| N | SM\$MFR | 169 |
| N | SM\$OM0 | 186 |
| N | SM\$OM1 | 187 |
| N | SM\$OM2 | 188 |
| N | SM\$OM3 | 189 |
| | SM\$OMD | 185 186 187 188 189 |
| N | SM\$RDO | 172 |
| N | SM\$ROT | 168 |
| | SPICMD | 365 366 |
| | SPISTS | 377 379 |
| | START | 625 531 |
| | STATUS | 374 375 |
| | STSLOC | 373 374 |
| N | STSWDS | 400 |
| N | STSWT | 444 |
| N | STYFGS | 319 |
| N | SWORD | 50 |
| N | SX25LV | 285 |
| | SYCLEV | 290 291 |
| | TAL6 | 367 368 |
| | TAL66 | 366 367 |
| | TIME | 860 858 |
| N | TLAMOD | 432 |
| N | TLBMOD | 433 |
| N | TLCMOD | 435 |
| N | TLDMOD | 436 |
| | TRACK | 487 628 658 850 |
| | TRAPER | 1024 459 1022 |
| | TRKNUM | 695 658 |
| | TRKSIZ | 523 629 818 829 |
| | TRNS | 489 631 666 810 834 852 |
| N | TRPCLK | 311 |
| | TRPDIE | 1026 1024 |
| | TSABKO | 915 542 725 |
| | TSABK1 | 918 915 |
| | TSABK2 | 921 918 |
| N | TSALS | 725 |

DBTL SOFTWARE

- SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0044

| | | |
|----------|-----|--|
| TSAOVR | 705 | 894 |
| TSOVIV | 889 | 605 788 |
| N TSOVLV | 280 | |
| N TV01 | 780 | |
| N TV02 | 779 | |
| N TV03 | 778 | |
| N TV04 | 777 | |
| N TV05 | 776 | |
| N TV06 | 775 | |
| N TV07 | 774 | |
| N TV08 | 773 | |
| N TV09 | 772 | |
| N TV10 | 771 | |
| N TV11 | 770 | |
| N TV12 | 769 | |
| N TV13 | 768 | |
| N TV14 | 767 | |
| N TV15 | 766 | |
| N TV16 | 765 | |
| N TV17 | 764 | |
| N TV18 | 763 | |
| N TV19 | 762 | |
| N TV20 | 761 | |
| N TV21 | 760 | |
| N TV22 | 759 | |
| N TV23 | 758 | |
| N TV24 | 757 | |
| N TV25 | 756 | |
| N TV26 | 755 | |
| N TV27 | 754 | |
| N TV28 | 753 | |
| N TV29 | 752 | |
| N TV30 | 751 | |
| N TV31 | 750 | |
| N TV32 | 749 | |
| N TV33 | 748 | |
| N TV34 | 747 | |
| N TV35 | 746 | |
| N TV36 | 745 | |
| N TV37 | 744 | |
| N TV38 | 743 | |
| N TV39 | 742 | |
| N TV40 | 741 | |
| N TV41 | 740 | |
| N TV42 | 739 | |
| N TV43 | 738 | |
| N TV44 | 737 | |
| N TV45 | 736 | |
| N TV46 | 735 | |
| N TWO | 482 | |
| U | 519 | 687 688 689 690 696 805 |
| N UNEDIT | 324 | |

DBTL SOFTWARE

-SAF 1981/12/24 10:12:47 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0045

USERQ 348 349
N USRDTA 48
N UWORD 51
N WATLEV 283
N WDTLEV 279
N WDTMR 728
ZERO 480 628 661
ZILCH 856 808

562 LABELS
491 REFERENCES
1080 RECORDS
0 U FLAGS
5 M FLAGS
332 N FLAGS
3342 WORD CROSS REFERENCE TABLE

12/24/81

12:45:34

PRINTOUT #924